

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 17.9109 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-13

Perfect score: 162

Sequence: 1 AKKARAAKKARAARAKKARAARAKKARAARAKKARA 36

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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- 2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
- 3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
- 4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
- 5: /cgn2_6/ptodata/2/iaa/PTTUS_COMB.pep.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	104	64.2	223	3	US-09-095-855-201
2	104	64.2	223	4	US-09-205-426-201
3	88.5	54.6	469	4	US-09-489-039A-13565
4	83	51.2	109	4	US-09-405-743A-7
5	80	49.4	48	3	US-08-993-008A-5
6	80	49.4	56	3	US-08-993-008A-6
7	80	49.4	100	2	US-08-460-890A-63
8	80	49.4	100	2	US-08-460-890A-64
9	80	49.4	100	3	US-08-167-641C-63
10	80	49.4	100	3	US-08-167-641C-64
11	80	49.4	100	3	US-08-460-871A-63
12	80	49.4	100	3	US-08-460-871A-64
13	80	49.4	100	3	US-08-462-040-63
14	80	49.4	100	3	US-08-462-040-64
15	79	48.8	60	1	US-08-346-849-16
16	79	48.8	60	2	US-08-293-284A-16
17	79	48.8	60	4	US-08-898-300-16
18	79	48.8	1507	3	US-08-929-329-5
19	75.5	46.6	56	4	US-09-405-743A-3
20	75.5	46.6	218	3	US-09-041-889-4
21	75.5	46.6	218	3	US-08-837-058-4
22	75.5	46.6	218	4	US-09-417-264-4
23	74	45.7	407	4	US-09-252-991A-29581
24	73.5	45.4	207	4	US-09-489-039A-13743
25	72	44.4	86	4	US-09-405-743A-6
26	71.5	44.1	33	1	US-08-303-025-16
27	71.5	44.1	33	2	US-08-436-703B-4

28	71.5	44.1	204	4	US-09-134-000C-3554	Sequence 3554, Ap
29	71	43.8	77	4	US-09-405-743A-5	Sequence 5, Appli
30	71	43.8	236	4	US-09-252-991A-18461	Sequence 18461, A
31	70	43.2	29	1	US-08-152-488-12	Sequence 12, Appl
32	70	43.2	29	1	US-08-303-025-14	Sequence 14, Appl
33	70	43.2	29	1	US-08-677-304-12	Sequence 12, Appl
34	70	43.2	29	1	US-08-436-703B-16	Sequence 16, Appl
35	70	43.2	37	3	US-08-995-172-20	Sequence 20, Appl
36	70	43.2	66	4	US-09-405-743A-4	Sequence 4, Appli
37	70	43.2	116	3	US-09-041-889-38	Sequence 38, Appl
38	70	43.2	116	4	US-09-417-264-38	Sequence 38, Appl
39	70	43.2	158	3	US-09-041-889-40	Sequence 40, Appl
40	70	43.2	158	4	US-09-417-264-40	Sequence 40, Appl
41	70	43.2	212	3	US-09-041-889-1	Sequence 1, Appli
42	70	43.2	212	3	US-08-837-058-1	Sequence 1, Appli
43	70	43.2	212	4	US-09-417-264-1	Sequence 1, Appli
44	70	43.2	222	3	US-09-041-889-3	Sequence 3, Appli
45	70	43.2	222	3	US-08-837-058-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

RESULT 8
US-08-460-890A-64


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; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/167,641C
; FILING DATE: December 14, 1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 205/012
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be present or absent.
; US-08-167-641C-64

Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 3 KAAAKKARAARAKAARAKAARAKAARAKA 36
Db 1 KAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 34

RESULT 11
US-08-460-971A-63
; Sequence 63, Application US/08460971A
; Patent No. 6150168
; GENERAL INFORMATION:
; APPLICANT: Woo, Savio L.C.
; APPLICANT: Smith, Louis C.
; APPLICANT: Cristiano, Richard J.
; APPLICANT: Gottchalk, Stephen
; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND METHODS OF USE
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/167,641C
; FILING DATE: December 14, 1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 205/012
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be present or absent.
; US-08-167-641C-64

Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 3 KAAAKKARAARAKAARAKAARAKAARAKA 36
Db 1 KAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 34

RESULT 11
US-08-460-971A-63
; Sequence 63, Application US/08460971A
; Patent No. 6150168
; GENERAL INFORMATION:
; APPLICANT: Woo, Savio L.C.
; APPLICANT: Smith, Louis C.
; APPLICANT: Cristiano, Richard J.
; APPLICANT: Gottchalk, Stephen
; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND METHODS OF USE
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/167,641C
; FILING DATE: December 14, 1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 205/012
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be present or absent.
; US-08-167-641C-64

Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 3 KAAAKKARAARAKAARAKAARAKAARAKA 36
Db 1 KAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 34

RESULT 12
US-08-460-971A-64
; Sequence 64, Application US/08460971A
; Patent No. 6150168
; GENERAL INFORMATION:
; APPLICANT: Woo, Savio L.C.
; APPLICANT: Smith, Louis C.
; APPLICANT: Cristiano, Richard J.
; APPLICANT: Gottchalk, Stephen
; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND METHODS OF USE
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/167,641C
; FILING DATE: December 14, 1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 212/063
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 63:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Arg Ala" in positions 3 to 100 may be present or absent.
; US-08-460-971A-63

Query Match 49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;

QY 3 KAAAKKARAARAKAARAKAARAKAARAKA 36
Db 1 RARARARARARARARARARARARARARA 34

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; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 212/063
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
;
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
; present or absent.
;
; US-08-460-971A-64
;
; Query Match 49.4%; Score 80; DB 3; Length 100;
; Best Local Similarity 52.9%; Pred. No. 0.0065;
; Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;
;
; QY 3 KARAARAKARAAKARAAKARAAKARAAKARA 36
; DB 1 KAKAKAKAKAKAKAKAKAKAKAKAKAKAKAKA 34
;
; RESULT 13
; US-08-462-040-63
; Sequence 63, Application US/08462040
; Patent No. 6177554
; GENERAL INFORMATION:
; APPLICANT: Woo, Savio L.C.
; APPLICANT: Smith, Louis C.
; APPLICANT: Cristiano, Richard J.
; APPLICANT: Gottchalk, Stephen
; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
; TITLE OF INVENTION: METHODS OF USE
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,040
; FILING DATE: June 5, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/167,641
; FILING DATE: December 14, 1993
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 212/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
; present or absent.
;
; US-08-462-040-64
; Sequence 64, Application US/08462040
; Patent No. 6177554
; GENERAL INFORMATION:
; APPLICANT: Woo, Savio L.C.
; APPLICANT: Smith, Louis C.
; APPLICANT: Cristiano, Richard J.
; APPLICANT: Gottchalk, Stephen
; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
; TITLE OF INVENTION: METHODS OF USE
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,040
; FILING DATE: June 5, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/167,641
; FILING DATE: December 14, 1993
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 212/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Arg Ala" in positions 3 to 100 may be
; present or absent.
;
; US-08-462-040-63
;
; Query Match 49.4%; Score 80; DB 3; Length 100;
; Best Local Similarity 52.9%; Pred. No. 0.0065;
; Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;
;
; QY 3 KARAARAKARAAKARAAKARAAKARAAKARA 36
; DB 1 KARARARARARARARARARARARARARARARA 34
;
; RESULT 14
; US-08-462-040-64
; Sequence 64, Application US/08462040
; Patent No. 6177554
; GENERAL INFORMATION:
; APPLICANT: Woo, Savio L.C.
; APPLICANT: Smith, Louis C.
; APPLICANT: Cristiano, Richard J.
; APPLICANT: Gottchalk, Stephen
; TITLE OF INVENTION: NUCLEIC ACID TRANSPORTER SYSTEMS AND
; TITLE OF INVENTION: METHODS OF USE
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FASTSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/462,040
; FILING DATE: June 5, 1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/167,641
; FILING DATE: December 14, 1993
; APPLICATION NUMBER: 07/855,389
; FILING DATE: March 20, 1992
; APPLICATION NUMBER: PCT/US93/02725
; FILING DATE: March 19, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 212/078
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 64:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 100 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Arg Ala" in positions 3 to 100 may be
; present or absent.
;
; US-08-462-040-63

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Search completed: August 17, 2004, 16:14:26
Job time : 17.9109 secs

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; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; OTHER INFORMATION: "Lys Ala" in positions 3 to 100 may be
; OTHER INFORMATION: present or absent.
; US-08-462-040-64

Query Match          49.4%; Score 80; DB 3; Length 100;
Best Local Similarity 52.9%; Pred. No. 0.0065;
Matches 18; Conservative 6; Mismatches 10; Indels 0; Gaps 0;
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RESULT 15
 US-08-346-849-16
 ; Sequence 16, Application US/08346849
 ; Patent No. 5670483
 ; GENERAL INFORMATION:
 ; APPLICANT: Zhang, Shuguang
 ; APPLICANT: Lockshin, Curtis
 ; APPLICANT: Rich, Alexander
 ; APPLICANT: Holmes, Todd
 ; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
 ; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
 ; TITLE OF INVENTION: THEREFOR
 ; NUMBER OF SEQUENCES: 64
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
 ; STREET: Two Militia Drive
 ; CITY: Lexington
 ; STATE: Massachusetts
 ; COUNTRY: U.S.A.
 ; ZIP: 02173-4799
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/346,849
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 07/973,326
 ; FILING DATE: 28 DECEMBER 1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Brook, David E.
 ; REGISTRATION NUMBER: 22,592
 ; REFERENCE/DOCKET NUMBER: MIT-6008
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (617) 861-6240
 ; TELEFAX: (617) 861-9540
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 60 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-346-849-16

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Query Match      48.8%; Score 79; DB 1; Length 60;
Best Local Similarity 55.6%; Pred. No. 0.0054;
Matches 20; Conservative 9; Mismatches 9; Indels 2; Gaps 1;

Qy  2  KKAFAAKKARAAXKARAAXKARAAXK--KARAAXKAR  35
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Db   6  KKAALAKKKAAXAAKKAAXAAKKAAXKPKKKAAXKAK  41

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 56.7624 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-13

Perfect score: 162
Sequence: 1 AKKARAARKARAARKARAARKARAARKARA 36

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:
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15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	104	64.2	223	13	US-10-051-643-201
2	104	64.2	223	14	US-10-205-379-52
3	85.5	52.8	428	12	US-10-282-122A-55748
4	85	52.5	372	12	US-10-282-122A-68109
5	84	51.9	323	12	US-10-282-122A-59321
6	83	51.2	109	9	US-09-816-989A-7
7	82	50.6	243	9	US-09-771-161A-127
8	79	48.8	60	16	US-10-390-472-16
9	76.5	47.2	217	14	US-10-156-761-10221
10	75.5	46.6	55	16	US-10-240-430-8
11	75.5	46.6	56	9	US-09-816-989A-3
12	75.5	46.6	66	16	US-10-240-430-7
13	75.5	46.6	130	14	US-10-262-209-2
14	75.5	46.6	130	16	US-10-240-430-5
15	75.5	46.6	218	14	US-10-229-567-4

16	75.5	46.6	234	14	US-10-262-209-1	Sequence 1, Appli
17	75.5	46.6	234	16	US-10-240-430-2	Sequence 2, Appli
18	75.5	46.6	421	12	US-10-282-122A-56483	Sequence 5483, A
19	75	46.3	272	14	US-10-156-761-12370	Sequence 12370, A
20	74.5	46.0	539	15	US-10-369-493-17058	Sequence 17058, A
21	74	45.7	293	16	US-10-437-963-186290	Sequence 186290, A
22	74	45.7	347	12	US-10-282-122A-66237	Sequence 66237, A
23	74	45.7	347	14	US-10-127-032-120	Sequence 120, App
24	73.5	45.4	139	12	US-10-282-122A-60257	Sequence 60257, A
25	72	44.4	86	9	US-09-816-989A-6	Sequence 6, Appli
26	72	44.4	376	12	US-10-282-122A-75772	Sequence 75772, A
27	72	44.4	376	14	US-10-156-761-9889	Sequence 9889, Ap
28	71	43.8	77	9	US-09-816-989A-5	Sequence 5, Appli
29	71	43.8	407	12	US-10-282-122A-75047	Sequence 75047, A
30	70.5	43.5	298	12	US-10-425-114-56061	Sequence 56061, A
31	70	43.2	66	9	US-09-816-989A-4	Sequence 4, Appli
32	70	43.2	116	14	US-10-229-567-38	Sequence 38, Appl
33	70	43.2	158	14	US-10-229-567-40	Sequence 40, Appl
34	70	43.2	212	14	US-10-229-567-1	Sequence 1, Appli
35	70	43.2	222	14	US-10-229-567-3	Sequence 3, Appli
36	70	43.2	226	14	US-10-229-567-32	Sequence 32, Appl
37	70	43.2	336	12	US-10-282-122A-69962	Sequence 69962, A
38	70	43.2	838	14	US-10-156-761-10342	Sequence 10342, A
39	69.5	42.9	373	12	US-10-424-599-144844	Sequence 144844,
40	69	42.6	76	12	US-10-424-599-210232	Sequence 210232,
41	69	42.6	214	12	US-10-282-122A-62547	Sequence 62547, A
42	69	42.6	214	12	US-10-282-122A-64817	Sequence 64817, A
43	69	42.6	214	14	US-10-229-567-27	Sequence 27, Appl
44	69	42.6	301	16	US-10-437-963-182491	Sequence 182491,
45	69	42.6	373	16	US-10-437-963-125161	Sequence 125161,

ALIGNMENTS

RESULT 1

US-10-051-643-201
; Sequence 201, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
; TITLE OF INVENTION: System using Mycobacterium Vaccae
; FILE REFERENCE: 11000.1008C2
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-051-643-201

Query Match 64.2%; Score 104; DB 13; Length 223;
Best Local Similarity 72.2%; Pred.No. 4.5e-05;
Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 1 AKKARAARKARAARKARAARKARAARKARA 36
DB 141 ATKAAFAKATAAKKAAKAAKAAKAAKAA 176

RESULT 2

US-10-205-979-52
; Sequence 52, Application US/10205979
; Publication No. US20030147861A1


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; PRIOR APPLICATION NUMBER: PCT/US99/22402
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-7

Query Match          51.2%; Score 83; DB 9; Length 109;
Best Local Similarity 60.0%; Pred.No. 0.0064;
Matches 24; Conservative 4; Mismatches 8; Indels 4; Gaps 2;

Qy 1 AKKARA--AKKARA--KKARAACKARAACKARAACKARA 36
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Db 5 AKKAEYAKKAAKAEKKAYAKKEAKYKAAEAKKAKA 44

RESULT 7
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

Query Match          50.6%; Score 82; DB 9; Length 243;
Best Local Similarity 57.6%; Pred.No. 0.018;
Matches 19; Conservative 6; Mismatches 8; Indels 0; Gaps 0;

Qy 2 KKARAACKARAACKARAACKARAACKARAACKA 34
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Db 9 KKARAACKARAACKARAACKARAACKARAACKA 41

RESULT 8
US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; Zhang, Shuguang
; Rich, Alexander
; DiPersio, C. Michael
; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts

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[illegible]

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; TYPE: amino acid
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION: /note= "product = Human Histone
; H1-S-4"
; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-229-567-4
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Best Local Similarity 50.0%; Pred. No. 0.093;
Matches 19; Conservative 6; Mismatches 10; Indels 3; Gaps 1;
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QY 2 KKARAARKARAAKARAAKARAAKARAAK--KARA 36
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Db 155 KKAKPAAAGAKKAKSPKAKAAKPKKAPKSPAKA 192
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Job time : 56.7624 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

QM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 7.9604 Seconds
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103.766 Million cell updates/sec

Title: US-09-496-391-35

Perfect score: 77

Sequence: 1 ARKKAARARRKACRA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	52	67.5	21	2	US-08-660-592-9
2	52	67.5	21	3	US-09-166-330A-7
3	49	63.6	743	4	US-09-252-991A-28327
4	47	61.0	19	2	US-08-660-592-1
5	47	61.0	19	2	US-08-660-592-6
6	47	61.0	19	3	US-09-166-930A-1
7	47	61.0	358	4	US-09-252-991A-30170
8	46	59.7	133	4	US-09-252-991A-23880
9	46	59.7	246	4	US-09-252-991A-23196
10	46	59.7	411	4	US-09-252-991A-28696
11	45	58.4	464	4	US-09-252-991A-33108
12	44	57.1	16	2	US-08-660-592-2
13	44	57.1	16	2	US-08-660-592-3
14	44	57.1	16	2	US-08-660-592-7
15	44	57.1	16	2	US-08-660-592-8
16	44	57.1	16	3	US-09-166-930A-2
17	44	57.1	16	3	US-09-166-930A-3
18	44	57.1	186	4	US-09-489-039A-11500
19	44	57.1	197	4	US-09-252-991A-26537
20	44	57.1	329	4	US-09-252-991A-18860
21	44	57.1	361	4	US-09-252-991A-28125
22	44	57.1	472	4	US-09-252-991A-17011
23	43	55.8	19	3	US-09-166-930A-6
24	43	55.8	285	4	US-09-252-991A-22267
25	43	55.8	308	4	US-09-252-991A-29958
26	43	55.8	342	4	US-09-252-991A-32412
27	43	55.8	457	4	US-09-252-991A-23463

28 43 55.8 492 4 US-09-252-991A-23619 Sequence 23619, A
29 43 55.8 495 4 US-09-252-991A-21489 Sequence 21489, A
30 43 55.8 515 4 US-09-252-991A-22284 Sequence 22284, A
31 43 55.8 534 4 US-09-252-991A-20468 Sequence 20468, A
32 43 55.8 539 4 US-09-252-991A-22491 Sequence 22491, A
33 42.5 55.2 78 4 US-09-489-039A-12347 Sequence 12347, A
34 42 54.5 38 2 US-08-436-703B-17 Sequence 17, Appl
35 42 54.5 39 2 US-08-436-703B-5 Sequence 5, Appl
36 42 54.5 145 4 US-09-252-991A-19419 Sequence 19419, A
37 42 54.5 146 4 US-09-252-991A-32618 Sequence 32618, A
38 42 54.5 163 4 US-09-252-991A-18617 Sequence 18617, A
39 42 54.5 176 4 US-09-252-991A-21594 Sequence 21594, A
40 42 54.5 179 4 US-09-252-991A-23675 Sequence 23675, A
41 42 54.5 201 4 US-09-252-991A-27351 Sequence 27351, A
42 42 54.5 266 4 US-09-252-991A-29964 Sequence 29964, A
43 42 54.5 358 4 US-09-252-991A-20554 Sequence 20554, A
44 42 54.5 419 4 US-09-252-991A-31734 Sequence 31734, A
45 42 54.5 482 4 US-09-252-991A-24144 Sequence 24144, A

ALIGNMENTS

RESULT 1
US-08-660-592-9
; Sequence 9, Application US/08660592
; Patent No. 5877153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-660-592-9

Query Match 67.5%; Score 52; DB 2; Length 21;
Best Local Similarity 80.0%; Pred. No. 0.075; 3; Indels 0;
Matches 12; Conservative 0; Mismatches 3; Gaps 0;

QY 1 ARKKAARARRKACR 15
Db 5 ARRAAARARRAAR 19

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CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,592
FILING DATE: 11-JUN-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McGowan, Malcolm K.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 006338-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-1

Query Match 61.0%; Score 47; DB 2; Length 19;
Best Local Similarity 84.6%; Pred. No. 0.38;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARAAERKA 13
DB 5 ARRAAARAA 17

RESULT 5
US-08-660-592-6
; Sequence 6, Application US/08660592
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021

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; INFORMATION FOR SEQ ID NO: 6:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 19 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-660-592-6

Query Match 61.0%; Score 47; DB 2; Length 19;
Best Local Similarity 84.6%; Pred. No. 0.38;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKAAARARRKA 13

Db 5 ARRAAARARRAA 17

RESULT 6

US-09-166-930A-1

; Sequence 1, Application US/09166930A

; Patent No. 6200955

; GENERAL INFORMATION:

; APPLICANT: HARRIS, Robert B.

; APPLICANT: SOBEL, Michael

; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES

; FILE REFERENCE: 006338-006

; CURRENT APPLICATION NUMBER: US/09/166,930A

; CURRENT FILING DATE: 1998-10-06

; PRIOR FILING DATE: 1998-10-06

; PRIOR FILING DATE: 1996-06-11

; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1

; LENGTH: 19

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: branched-chain

; OTHER INFORMATION: heparin-binding peptide Arg Helix #2

US-09-166-930A-1

Query Match 61.0%; Score 47; DB 3; Length 19;
Best Local Similarity 84.6%; Pred. No. 0.38;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKAAARARRKA 13

Db 5 ARRAAARARRAA 17

RESULT 7

US-09-252-991A-30170

; Sequence 30170, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR FILING DATE: 1998-02-18

; PRIOR FILING DATE: 1998-02-18

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 30170

; LENGTH: 338

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-30170

Query Match 61.0%; Score 47; DB 4; Length 358;
Best Local Similarity 71.4%; Pred. No. 7;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 RKAAARARRKACRA 16

Db 87 RTARRASRRGACRA 100

RESULT 8

US-09-252-991A-23880

; Sequence 23880, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 23880

; LENGTH: 133

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23880

Query Match 59.7%; Score 46; DB 4; Length 133;
Best Local Similarity 64.3%; Pred. No. 3.7;
Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 RKAAARARRKACR 15

Db 49 RRAARRRRRAAR 62

RESULT 9

US-09-252-991A-23196

; Sequence 23196, Application US/09252991A

; Patent No. 6551795

; GENERAL INFORMATION:

; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

; FILE REFERENCE: 107196.136

; CURRENT APPLICATION NUMBER: US/09/252,991A

; CURRENT FILING DATE: 1999-02-18

; PRIOR APPLICATION NUMBER: US 60/074,788

; PRIOR FILING DATE: 1998-02-18

; PRIOR APPLICATION NUMBER: US 60/094,190

; PRIOR FILING DATE: 1998-07-27

; NUMBER OF SEQ ID NOS: 33142

; SEQ ID NO 23196

; LENGTH: 246

; TYPE: PRT

; ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23196

Query Match 59.7%; Score 46; DB 4; Length 246;
Best Local Similarity 66.7%; Pred. No. 6.8;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKAAARARRKACR 15

Db 232 AGRIVARRRRRCR 246

RESULT 10

US-09-252-991A-28696

```
; Sequence 28696, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28696
; LENGTH: 411
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28696

Query Match 59.7%; Score 46; DB 4; Length 411;
Best Local Similarity 60.0%; Pred. No. 11;
Matches 9; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

Qy 2 RRKAARARRKACRA 16
Db 15 RRRRSARRCACEA 29

RESULT 11
US-09-252-991A-33108
; Sequence 33108, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 33108
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-33108

Query Match 58.4%; Score 45; DB 4; Length 464;
Best Local Similarity 62.5%; Pred. No. 18;
Matches 10; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ARKAARARRKACRA 16
Db 25 ARRRRALAGRAVACEA 40

RESULT 12
US-08-660-592-2
; Sequence 2, Application US/08660592
; Patent No. 5877153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
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; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-660-592-2

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAARARR 11
Db 5 ARRAARRARR 15

RESULT 13
US-08-660-592-3
; Sequence 3, Application US/08660592
; Patent No. 5877153
; GENERAL INFORMATION:
; APPLICANT: HARRIS, Robert B.
; APPLICANT: SOBEL, Michael
; TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESS: BURNS, DOANE, SWECKER & MATHIS
; STREET: P.O. Box 1404
; CITY: Alexandria
; STATE: Virginia
; COUNTRY: United States
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/660,592
; FILING DATE: 11-JUN-1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: McGowan, Malcolm K.
; REGISTRATION NUMBER: 39,300
; REFERENCE/DOCKET NUMBER: 006338-001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 836-6620
; TELEFAX: (703) 836-2021
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 amino acids
; TYPE: amino acid
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STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-3

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAAARAAR 11
Db 5 ARRAARAAR 15

RESULT 14

US-08-660-592-7
Sequence 7, Application US/08660592
Patent No. 5877153
GENERAL INFORMATION:
APPLICANT: HARRIS, Robert B.
APPLICANT: SOBEL, Michael
TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,592
FILING DATE: 11-JUN-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McGowan, Malcolm K.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 006338-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-7

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAAARAAR 11
Db 5 ARRAARAAR 15

RESULT 15

US-08-660-592-8
Sequence 8, Application US/08660592
Patent No. 5877153
GENERAL INFORMATION:
APPLICANT: HARRIS, Robert B.
APPLICANT: SOBEL, Michael
TITLE OF INVENTION: NOVEL HEPARIN BINDING PEPTIDES
NUMBER OF SEQUENCES: 11

CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/660,592
FILING DATE: 11-JUN-1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: McGowan, Malcolm K.
REGISTRATION NUMBER: 39,300
REFERENCE/DOCKET NUMBER: 006338-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 16 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-660-592-8

Query Match 57.1%; Score 44; DB 2; Length 16;
Best Local Similarity 90.9%; Pred. No. 0.91;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ARKAAARAAR 11
Db 5 ARRAARAAR 15

Search completed: August 17, 2004, 16:14:32
Job time : 13.9604 secs

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 25.2277 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-35

Perfect score: 77

Sequence: 1 ARKKAARARRKACRA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 31327144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*
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9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep.*
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12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	48	62.3	565	15	US-10-369-493-7651 Sequence 7651, App
2	47	61.0	19	12	US-09-905-691-3 Sequence 3, Appli
3	46	59.7	306	16	US-10-437-963-193124 Sequence 193124,
4	45	58.4	393	16	US-10-437-963-150694 Sequence 150694,
5	45	58.4	1593	12	US-10-282-122A-65262 Sequence 65262, A
6	44	57.1	16	12	US-09-905-691-1 Sequence 1, Appli
7	44	57.1	77	12	US-10-282-122A-45695 Sequence 45695, A
8	44	57.1	77	12	US-10-282-122A-46600 Sequence 46600, A
9	44	57.1	164	12	US-10-425-114-62125 Sequence 62125, A
10	44	57.1	169	12	US-10-425-114-62126 Sequence 62126, A
11	44	57.1	169	12	US-10-425-114-62127 Sequence 62127, A
12	44	57.1	210	16	US-10-437-963-148098 Sequence 148098,
13	44	57.1	533	10	US-09-847-102A-39 Sequence 39, Appli
14	44	57.1	591	10	US-09-847-102A-59 Sequence 59, Appli
15	44	57.1	591	14	US-10-285-976-55 Sequence 55, Appli

Sequence 36, Appli
Sequence 128, App
Sequence 35, Appli
Sequence 128, App
Sequence 423, App
Sequence 6, Appli
Sequence 4530, A
Sequence 37348, A
Sequence 105083,
Sequence 255433,
Sequence 185856,
Sequence 2, Appli
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Sequence 106504,
Sequence 163788,
Sequence 142688,
Sequence 188265,
Sequence 166309,
Sequence 175682,
Sequence 46374, A
Sequence 123120,
Sequence 49998, A
Sequence 43089, A
Sequence 50517, A
Sequence 129, App
Sequence 129, App
Sequence 59, Appli
Sequence 126, App

591 15 US-10-099-322-36
591 15 US-10-099-322-128
591 15 US-10-044-564-36
591 15 US-10-044-564-128
591 16 US-10-408-765A-423
1073 14 US-10-156-761-12156
19662 15 US-10-084-846A-6
72 11 US-09-864-408A-4530
94 16 US-10-437-963-105083
184 12 US-10-425-114-37348
195 12 US-10-424-599-255433
423 16 US-10-437-963-185856
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16 12 US-10-455-713-2
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97 16 US-10-437-963-163788
122 16 US-10-437-963-142688
131 16 US-10-437-963-188265
198 16 US-10-437-963-166309
209 16 US-10-437-963-175682
233 12 US-10-425-114-46374
256 16 US-10-437-963-162910
318 16 US-10-437-963-123120
354 12 US-10-282-122A-49998
372 12 US-10-282-122A-49089
503 12 US-10-282-122A-50517
549 15 US-10-099-322-129
549 15 US-10-044-564-129
591 10 US-09-847-102A-59
592 15 US-10-099-322-126

ALIGNMENTS

RESULT 1

US-10-369-493-7651
; Sequence 7651, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 7651
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(565)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-7651

Query Match 62.3%; Score 48; DB 15; Length 565;

Best Local Similarity 68.8%; Pred. No. 49;

Matches 11; Conservative 2; Mismatches 1; Indels 2; Gaps 1;

QY 1 ARKKAARARRKACRA 16

Db 367 ARRR--RAARRRCRA 380

RESULT 2

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US-09-905-691-3
; Sequence 3, Application US/09905691
; Publication No. US20020164329A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Robert B.
; APPLICANT: Wolz, Russell L.
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Adsorption and Removal of Endotoxin from Physiological
; TITLE OF INVENTION: Fluids Using Cationic Helix Peptides
; FILE REFERENCE: 006338-017
; CURRENT APPLICATION NUMBER: US/09/905,691
; CURRENT FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 19
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Arginine Helix #2
US-09-905-691-3

Query Match 61.0%; Score 47; DB 12; Length 19;
Best Local Similarity 84.6%; Pred. No. 3.1;
Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 13
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Db 5 ARRAAARAAKKA 17

RESULT 3
US-10-437-963-193124
; Sequence 193124, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 193124
; LENGTH: 303
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Cloning of Arginine Helix #2
US-10-437-963-193124

Query Match 59.7%; Score 46; DB 16; Length 303;
Best Local Similarity 56.2%; Pred. No. 54;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 16
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Db 264 ASRRGAARGSCRA 279

RESULT 4
US-10-437-963-150694
; Sequence 150694, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 150694
; LENGTH: 396
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Cloning of Arginine Helix #2
US-10-437-963-150694

Query Match 58.4%; Score 45; DB 16; Length 396;
Best Local Similarity 57.1%; Pred. No. 96;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARAAKKA 14
   ||| ||||| |||
Db 95 ARRAASSRRRC 108

RESULT 5
US-10-282-122A-65262
; Sequence 65262, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
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; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 65262
; LENGTH: 1593
; TYPE: PRT
; ORGANISM: Neisseria gonorrhoeae
US-10-282-122A-65262

Query Match      58.4%; Score 45; DB 12; Length 1593;
Best Local Similarity 69.2%; Pred. No. 3.4e+02;
Matches 9; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY      1 ARKKAARAKKA 13
      |:||||:|:|
Db      1165 AKRAAESARKA 1177

RESULT 6
US-09-905-691-1
; Sequence 1, Application US/09905691
; Publication No. US20020164329A1
; GENERAL INFORMATION:
; APPLICANT: Harris, Robert B.
; APPLICANT: Wolz, Russell L.
; APPLICANT: Wolz, Gabriella
; TITLE OF INVENTION: Adsorption and Removal of Endotoxin from Physiological
; TITLE OF INVENTION: Fluids Using Cationic Helix Peptides
; FILE REFERENCE: 006338-017
; CURRENT APPLICATION NUMBER: US/09/905,691
; CURRENT FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Arginine Helix #3
US-09-905-691-1

Query Match      57.1%; Score 44; DB 12; Length 16;
Best Local Similarity 90.9%; Pred. No. 7.1;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 ARKKAARARR 11
      ||| |||||
Db      5 ARRAARARR 15

RESULT 7
US-10-282-122A-45695
; Sequence 45695, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
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; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-03-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 45695
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-10-282-122A-45695

Query Match      57.1%; Score 44; DB 12; Length 77;
Best Local Similarity 64.3%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      1 ARKKAARARRKAC 14
      ||| |||||
Db      2 AGRKGGRARRKVC 15

RESULT 8
US-10-282-122A-46600
; Sequence 46600, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
```

; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See file Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46600
; LENGTH: 77
; TYPE: PRT
; ORGANISM: Bacillus anthracis
US-10-282-122A-46600

Query Match 57.1%; Score 44; DB 12; Length 77;
Best Local Similarity 64.3%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAC 14
||| ||| |||
Db 2 AGKGGRAKRVK 15

RESULT 9
US-10-425-114-62125
; Sequence 62125, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62125
; LENGTH: 164
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3969-011-Fl1_FLI.pep
US-10-425-114-62125

Query Match 57.1%; Score 44; DB 12; Length 164;
Best Local Similarity 56.2%; Pred. No. 59;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAKKACRA 16
||| ||| |||
Db 62 ARGAASARTPCRS 77

RESULT 10
US-10-425-114-62126
; Sequence 62126, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62126
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3732-053-B9_FLI.pep
US-10-425-114-62126

Query Match 57.1%; Score 44; DB 12; Length 169;
Best Local Similarity 56.2%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAKKACRA 16
||| ||| |||
Db 62 ARGAASARTPCRS 77

RESULT 11
US-10-425-114-62127
; Sequence 62127, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 62127
; LENGTH: 169
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3596-022-E4_FLI.pep
US-10-425-114-62127

Query Match 57.1%; Score 44; DB 12; Length 169;
Best Local Similarity 56.2%; Pred. No. 61;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKKAARAKKACRA 16
||| ||| |||
Db 62 ARGAASARTPCRS 77

RESULT 12
US-10-437-963-148098
; Sequence 148098, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148098

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; LENGTH: 210
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(210)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_48563C.1.pep
US-10-437-963-148098

Query Match      57.1%; Score 44; DB 16; Length 210;
Best Local Similarity 53.3%; Pred. No. 74;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      2 RRKAARARRKACRA 16
Db      69 RRCVRSAXRKAACA 83

RESULT 13
US-09-847-102A-39
; Sequence 39, Application US/09847102A
; Publication No. US2003004409A1
; GENERAL INFORMATION:
; APPLICANT: University of California
; APPLICANT: Carson, Dennis A.
; APPLICANT: Corr, Maripat
; APPLICANT: Rhee, Chae-Seo
; APPLICANT: Lorenzo, Leoni M.
; APPLICANT: Malini, Sen
; TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 22000-20629.00
; CURRENT APPLICATION NUMBER: US/09/847,102A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 533
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-847-102A-39

Query Match      57.1%; Score 44; DB 10; Length 533;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 RRKAARARRKACRA 16
Db      519 RKIAGARAKACRA 533

RESULT 14
US-09-847-102A-58
; Sequence 58, Application US/09847102A
; Publication No. US2003004409A1
; GENERAL INFORMATION:
; APPLICANT: University of California
; APPLICANT: Carson, Dennis A.
; APPLICANT: Corr, Maripat
; APPLICANT: Rhee, Chae-Seo
; APPLICANT: Lorenzo, Leoni M.
; APPLICANT: Malini, Sen
; TITLE OF INVENTION: IMMUNOLOGIC COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 22000-20629.00
; CURRENT APPLICATION NUMBER: US/09/847,102A
; CURRENT FILING DATE: 2001-05-01
; NUMBER OF SEQ ID NOS: 138
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 591
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; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-847-102A-58

Query Match      57.1%; Score 44; DB 10; Length 591;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 RRKAARARRKACRA 16
Db      543 RKIAGARAKACRA 557

RESULT 15
US-10-285-976-55
; Sequence 55, Application US/10285976
; Publication No. US20030165500A1
; GENERAL INFORMATION:
; APPLICANT: Rhee, Chae-Seo
; APPLICANT: Malini, Sen
; APPLICANT: Wu, Christina
; APPLICANT: Leoni, Lorenzo M.
; APPLICANT: Corr, Maripat
; APPLICANT: Carson, Dennis A.
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Wnt and Frizzled Receptors as Targets for Immunotherapy
; FILE REFERENCE: 023070-130320US
; CURRENT APPLICATION NUMBER: US/10/285,976
; CURRENT FILING DATE: 2002-11-01
; PRIOR APPLICATION NUMBER: US 60/287,995
; PRIOR FILING DATE: 2001-05-01
; PRIOR APPLICATION NUMBER: WO PCT/US02/13802
; PRIOR FILING DATE: 2002-05-01
; NUMBER OF SEQ ID NOS: 232
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 55
; LENGTH: 591
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: human frizzled9 (Fzd9)
US-10-285-976-55

Query Match      57.1%; Score 44; DB 14; Length 591;
Best Local Similarity 66.7%; Pred. No. 1.9e+02;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      2 RRKAARARRKACRA 16
Db      543 RKIAGARAKACRA 557
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Search completed: August 17, 2004, 17:19:18
Job time : 27.2277 secs

Result No.	Score	Match	Query	Length	DB	ID	Description	
1	66	58.4	407	4	US-09-252-991A-29581	Sequence 29581, A		
2	60	53.1	186	2	US-08-557-303B-43	Sequence 43, Appl		
3	60	53.1	186	3	US-08-834-306-43	Sequence 43, Appl		
4	60	53.1	186	3	US-08-993-674A-43	Sequence 43, Appl		
5	60	53.1	186	4	US-09-256-976-43	Sequence 43, Appl		
6	55	48.7	214	3	US-09-041-889-27	Sequence 27, Appl		
7	55	48.7	214	4	US-09-417-264-27	Sequence 27, Appl		
8	53	46.9	29	1	US-08-152-488-10	Sequence 10, Appl		
9	53	46.9	29	1	US-08-152-488-11	Sequence 11, Appl		
10	53	46.9	29	1	US-08-303-025-10	Sequence 10, Appl		
11	53	46.9	29	1	US-08-303-025-11	Sequence 11, Appl		
12	53	46.9	29	1	US-08-303-025-13	Sequence 13, Appl		
13	53	46.9	29	1	US-08-677-304-10	Sequence 10, Appl		
14	53	46.9	29	1	US-08-677-304-11	Sequence 11, Appl		
15	53	46.9	29	1	US-08-436-703B-33	Sequence 33, Appl		
16	53	46.9	29	2	US-08-436-703B-15	Sequence 15, Appl		
17	53	46.9	32	1	US-08-152-488-13	Sequence 13, Appl		
18	53	46.9	32	1	US-08-303-025-15	Sequence 15, Appl		
19	53	46.9	32	1	US-08-677-304-13	Sequence 13, Appl		
20	53	46.9	32	2	US-08-436-703B-2	Sequence 2, Appl		
21	53	46.9	33	1	US-08-303-025-16	Sequence 16, Appl		
22	53	46.9	33	2	US-08-436-703B-4	Sequence 4, Appl		
23	53	46.9	38	2	US-08-436-703B-17	Sequence 17, Appl		
24	53	46.9	39	2	US-08-436-703B-5	Sequence 5, Appl		
25	53	46.9	60	1	US-08-346-849-16	Sequence 16, Appl		
26	53	46.9	60	2	US-08-293-284A-16	Sequence 16, Appl		
27	53	46.9	60	4	US-08-898-300-16	Sequence 16, Appl		

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/557,309B
FILING DATE: 14-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 186 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-557-309B-43

Query Match 53.1%; Score 60; DB 2; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCAXKRAARAARAKRAARAKRA 24
DB 89 REABERARREARREARREARAKRA 111

RESULT 3
US-08-834-306-43
Sequence 43, Application US/08834306
Patent No. 6054135
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/834,306
FILING DATE: 15-APR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422C1
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 186 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-834-306-43

Query Match 53.1%; Score 60; DB 3; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCAXKRAARAARAKRAARAKRA 24
DB 89 REABERARREARREARREARAKRA 111

RESULT 4
US-08-993-674A-43
Sequence 43, Application US/08993674A
Patent No. 6228372
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Smith, John M.
APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION OF T
NUMBER OF SEQUENCES: 81
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/993,674A
FILING DATE: 18-DEC-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422C2
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 43:
SEQUENCE CHARACTERISTICS:
LENGTH: 186 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-993-674A-43

Query Match 53.1%; Score 60; DB 3; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCAXKRAARAARAKRAARAKRA 24
DB 89 REABERARREARREARREARAKRA 111

RESULT 5
US-09-256-976-43
Sequence 43, Application US/09256976
Patent No. 6419933
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Lodes, Michael J.
APPLICANT: Houghton, Raymond L.
APPLICANT: Smith, John M.

APPLICANT: McNeill, Patricia D.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND PREVENTION
OF T. CRUZI INFECTION
FILE REFERENCE: 210121.422C3
CURRENT APPLICATION NUMBER: US/09/256,976
CURRENT FILING DATE: 1999-02-24
NUMBER OF SEQ ID NOS: 95
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 43
LENGTH: 186
TYPE: PRT
ORGANISM: Trypanosoma cruzi
US-09-256-976-43

Query Match 53.1%; Score 60; DB 4; Length 186;
Best Local Similarity 60.9%; Pred. No. 0.52;
Matches 14; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

QY 2 RCACKRAARAARAKKRAAARAKKRA 24
DB 89 REAERARREARREARREARREAR 111

RESULT 6
US-09-041-889-27
Sequence 27, Application US/09041889
Patent No. 6033864
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
Microbial UC-PANCA antigens
TITLE OF INVENTION: Microbial UC-PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/837,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 48.7%; Score 55; DB 3; Length 214;
Best Local Similarity 54.2%; Pred. No. 2.6;
Matches 13; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAAARAKKRA 24

DB 108 ASAACKVAKKAPAKKATKAARAKKAA 131

RESULT 7
US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
Microbial UC-PANCA antigens
TITLE OF INVENTION: Microbial UC-PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27

Query Match 48.7%; Score 55; DB 4; Length 214;
Best Local Similarity 54.2%; Pred. No. 2.6;
Matches 13; Conservative 3; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAAARAKKRA 24
DB 108 ASAACKVAKKAPAKKATKAARAKKAA 131

RESULT 8
US-08-152-488-10
Sequence 10, Application US/08152488
Patent No. 5534619
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue

```

; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-152-488-10

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Query Match 46.9%; Score 53; DB 1; Length 29;
Best Local Similarity 53.8%; Pred. No. 0.72;
Matches 14; Conservative 5; Mismatches 5; Indels 2; Gaps 1;

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QY 1 ARCAKKAARAARAK--KRAARAARAKKA 24
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Db 2 AKKAARAKKAARAKKAARAKKAARAKKA 27

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RESULT 9
US-08-152-488-11
; Sequence 11, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text

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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-152-488-11

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Query Match 46.9%; Score 53; DB 1; Length 29;
Best Local Similarity 53.8%; Pred. No. 0.72;
Matches 14; Conservative 5; Mismatches 5; Indels 2; Gaps 1;

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QY 1 ARCAKKAARAARAK--KRAARAARAKKA 24
| : | : | : | : | : | : | : | : |
Db 2 AKKAARAKKAARAKKAARAKKAARAKKA 27

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RESULT 10
US-08-303-025-10
; Sequence 10, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993

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[illegible]

DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-13

Query Match 46.9%; Score 53; DB 1; Length 29;
Best Local Similarity 53.8%; Pred. No. 0.72; 5; Indels
Matches 14; Conservative 5; Mismatches 5; Gaps 1;

QY 1 ARCAKRAARA--KRAARAARKA 24
Db 2 AKKAARAKKA--KRAARAARKA 27

RESULT 13

US-08-677-304-10
Sequence 10, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7MG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993

Query Match 46.9%; Score 53; DB 1; Length 29;
Best Local Similarity 53.8%; Pred. No. 0.72;
Matches 14; Conservative 5; Mismatches 5; Indels 5; Gaps 1;

QY 1 ARCAKRAARA--KRAARAARKA 24
Db 2 AKKAARAKKA--KRAARAARKA 27

RESULT 14

US-08-677-304-11
Sequence 11, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7MG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993

Query Match 46.9%; Score 53; DB 1; Length 29;
Best Local Similarity 53.8%; Pred. No. 0.72;
Matches 14; Conservative 5; Mismatches 5; Indels 2; Gaps 1;

QY 1 ARCAKRAARA--KRAARAARKA 24
Db 2 AKKAARAKKA--KRAARAARKA 27

RESULT 15

Search completed: August 17, 2004, 16:14:37
Job time : 16.9406 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-36

Perfect score: 113

Sequence: 1 ARCCKKRAARAARAKKRAAARAKKRA 24

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Published Applications AA:
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 - 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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 - 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep.*
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 - 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	ID	Description
1	66	58.4	347	12	US-10-282-122A-66237 Sequence 66237, A
2	66	58.4	347	14	US-10-127-032-120 Sequence 120, App
3	66	58.4	372	12	US-10-282-122A-68109 Sequence 68109, A
4	64	56.6	336	12	US-10-282-122A-69962 Sequence 69962, A
5	61	54.0	428	12	US-10-282-122A-55748 Sequence 55748, A
6	58.5	51.8	21	12	US-10-169-613-13 Sequence 13, Appl
7	58	51.3	104	12	US-10-393-449-36 Sequence 36, Appl
8	58	51.3	104	12	US-10-393-449-86 Sequence 86, Appl
9	58	51.3	104	14	US-10-177-725-36 Sequence 36, Appl
10	58	51.3	827	16	US-10-177-725-86 Sequence 86, Appl
11	58	51.3	206	14	US-10-437-963-152005 Sequence 152005
12	57	50.4	261	14	US-10-426-007-33 Sequence 33, Appl
13	57	50.4	281	12	US-10-425-114-69952 Sequence 69952, A
14	57	50.4	526	12	US-10-282-122A-53742 Sequence 53742, A
15	57	50.4	636	12	US-10-425-114-37076 Sequence 37076, A

16	56	49.6	61	12	US-10-424-599-185724 Sequence 185724, A
17	56	49.6	105	16	US-10-437-963-135394 Sequence 135394, A
18	56	49.6	276	12	US-10-425-114-56815 Sequence 56815, A
19	56	49.6	850	12	US-10-424-599-242653 Sequence 242653, A
20	55	48.7	214	12	US-10-282-122A-62547 Sequence 62547, A
21	55	48.7	214	12	US-10-282-122A-64817 Sequence 64817, A
22	55	48.7	214	14	US-10-229-567-27 Sequence 27, Appl
23	55	48.7	1017	14	US-10-032-585-7590 Sequence 7590, App
24	53.5	47.3	21	12	US-10-169-613-18 Sequence 18, Appl
25	53	46.9	60	16	US-10-390-472-16 Sequence 16, Appl
26	53	46.9	67	12	US-10-393-449-54 Sequence 54, Appl
27	53	46.9	67	12	US-10-393-449-104 Sequence 104, App
28	53	46.9	67	14	US-10-177-725-54 Sequence 54, Appl
29	53	46.9	67	14	US-10-177-725-104 Sequence 104, App
30	53	46.9	75	12	US-10-393-449-53 Sequence 53, Appl
31	53	46.9	75	12	US-10-393-449-103 Sequence 103, App
32	53	46.9	75	14	US-10-177-725-53 Sequence 53, Appl
33	53	46.9	75	14	US-10-177-725-103 Sequence 103, App
34	53	46.9	83	12	US-10-393-449-52 Sequence 52, Appl
35	53	46.9	83	12	US-10-393-449-102 Sequence 102, App
36	53	46.9	83	14	US-10-177-725-102 Sequence 102, App
37	53	46.9	84	14	US-10-177-725-102 Sequence 102, App
38	53	46.9	84	12	US-10-424-599-269191 Sequence 269191, A
39	53	46.9	91	12	US-10-393-449-51 Sequence 51, Appl
40	53	46.9	91	12	US-10-393-449-101 Sequence 101, App
41	53	46.9	91	14	US-10-177-725-51 Sequence 51, Appl
42	53	46.9	91	14	US-10-177-725-101 Sequence 101, App
43	53	46.9	104	12	US-10-393-449-47 Sequence 47, Appl
44	53	46.9	104	12	US-10-393-449-97 Sequence 97, Appl
45	53	46.9	104	14	US-10-177-725-47 Sequence 47, Appl

ALIGNMENTS

RESULT 1
US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:

- ; APPLICANT: Wang, Liangsu
- ; APPLICANT: Zamudio, Carlos
- ; APPLICANT: Malone, Cheryl
- ; APPLICANT: Haselbeck, Robert
- ; APPLICANT: Chisen, Kari
- ; APPLICANT: Zyskind, Judith
- ; APPLICANT: Wall, Daniel
- ; APPLICANT: Trawick, John
- ; APPLICANT: Carr, Grant
- ; APPLICANT: Yamamoto, Robert
- ; APPLICANT: Forsyth, R.
- ; APPLICANT: Xu, H.
- ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
- ; FILE REFERENCE: ELITRA.034A
- ; CURRENT APPLICATION NUMBER: US/10/282,122A
- ; CURRENT FILING DATE: 2003-02-20
- ; PRIOR APPLICATION NUMBER: 60/191,078
- ; PRIOR FILING DATE: 2000-03-21
- ; PRIOR APPLICATION NUMBER: 60/206,848
- ; PRIOR FILING DATE: 2000-05-23
- ; PRIOR APPLICATION NUMBER: 60/207,727
- ; PRIOR FILING DATE: 2000-05-26
- ; PRIOR APPLICATION NUMBER: 60/230,335
- ; PRIOR FILING DATE: 2000-09-06
- ; PRIOR APPLICATION NUMBER: 60/230,347
- ; PRIOR FILING DATE: 2000-09-09
- ; PRIOR APPLICATION NUMBER: 60/242,578
- ; PRIOR FILING DATE: 2000-10-23
- ; PRIOR APPLICATION NUMBER: 60/253,625
- ; PRIOR FILING DATE: 2000-11-27
- ; PRIOR APPLICATION NUMBER: 60/257,931
- ; PRIOR FILING DATE: 2000-12-22
- ; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 66237
 ; LENGTH: 347
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-10-282-122A-66237

Query Match 58.4%; Score 66; DB 12; Length 347;
 Best Local Similarity 62.5%; Pred. No. 0.7;
 Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARCAKGAARAAKGAARAAKRA 24
 DB 168 AEDAKKAAEDAKKAAEAKKKA 191

RESULT 2
 US-10-127-032-120
 ; Sequence 120, Application US/10127032
 ; Publication No. US20030113742A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Whiteley, Marvin
 ; APPLICANT: Bangera, M. Gita
 ; APPLICANT: Lory, Stephen
 ; APPLICANT: Greenberg, Everett Peter
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
 ; TITLE OF INVENTION: BIOFILM FORMATION
 ; FILE REFERENCE: UIZ-070CP
 ; CURRENT APPLICATION NUMBER: US/10/127,032
 ; CURRENT FILING DATE: 2002-04-19
 ; PRIOR APPLICATION NUMBER: US 60/285,190
 ; PRIOR FILING DATE: 2001-04-20
 ; PRIOR APPLICATION NUMBER: US 60/344,142
 ; PRIOR FILING DATE: 2001-10-24
 ; NUMBER OF SEQ ID NOS: 170
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 120
 ; LENGTH: 347
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-10-127-032-120

Query Match 58.4%; Score 66; DB 14; Length 347;
 Best Local Similarity 62.5%; Pred. No. 0.7;
 Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARCAKGAARAAKGAARAAKRA 24
 DB 168 AEDAKKAAEDAKKAAEAKKKA 191

RESULT 3
 US-10-282-122A-68109
 ; Sequence 68109, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Chlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 68109
 ; LENGTH: 372
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas putida
 US-10-282-122A-68109

Query Match 58.4%; Score 66; DB 12; Length 372;
 Best Local Similarity 62.5%; Pred. No. 0.74;
 Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARCAKGAARAAKGAARAAKRA 24
 DB 189 AEDAKKAAEAKKAAEDAKKKA 212

RESULT 4
 US-10-282-122A-69962
 ; Sequence 69962, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Chlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match      56.6%; Score 64; DB 12; Length 336;
Best Local Similarity 65.7%; Pred. No. 1.2;
Matches 14; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

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Db      174 AKKAAEDAKKAAEDAKKA 194

RESULT 5
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; Publication No. US20040029129A1
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; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
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; PRIOR APPLICATION NUMBER: 60/206,848
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; PRIOR APPLICATION NUMBER: 60/207,727
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; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
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; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match      54.0%; Score 61; DB 12; Length 428;
Best Local Similarity 62.5%; Pred. No. 3.7;
Matches 15; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY      1 ARCAKKAARAAKKAARAAKKA 24
      |||:|||||:|||||:|||||:
Db      212 ABAKKAQAEBAKKAARAAKKA 235

RESULT 6
US-10-169-613-13
; Sequence 13, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkald, Oystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Soltstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: antimicrobial peptide
US-10-169-613-13

Query Match      51.8%; Score 58.5; DB 12; Length 21;
Best Local Similarity 71.4%; Pred. No. 0.48;
Matches 15; Conservative 3; Mismatches 2; Indels 1; Gaps 1;

QY      4 AKKRAAARAAKKAARAAKKA 24
      |||:|||||:|||||:|||||:
Db      2 AAKKAARAKK-AAKKAKKA 21

RESULT 7
US-10-393-449-36
; Sequence 36, Application US/10393449
; Publication No. US20030224412A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: RIGL-007CIP3
; CURRENT APPLICATION NUMBER: US/10/393,449
; PRIOR FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US 10/177,725
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
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; SEQ ID NO 36
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-393-449-36

Query Match      51.3%; Score 58; DB 12; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
DB 82 AAARKKRAAAAAAARAKK 104

RESULT 8
US-10-393-449-86
; Sequence 86, Application US/10393449
; Publication No. US20030224412A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: RIGL-007CIP3
; CURRENT APPLICATION NUMBER: US/10/393,449
; PRIOR FILING DATE: 2003-03-18
; PRIOR APPLICATION NUMBER: US 10/177,725
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 86
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
; NAME/KEY: MISC FEATURE
; LOCATION: (37)..(68)
; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid
US-10-393-449-86

Query Match      51.3%; Score 58; DB 12; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
DB 82 AAARKKRAAAAAAARAKK 104

RESULT 9
US-10-177-725-36
; Sequence 36, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
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; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 36
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-177-725-36

Query Match      51.3%; Score 58; DB 14; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
DB 82 AAARKKRAAAAAAARAKK 104

RESULT 10
US-10-177-725-86
; Sequence 86, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT SC
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 86
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
; NAME/KEY: MISC FEATURE
; LOCATION: (37)..(68)
; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid
US-10-177-725-86

Query Match      51.3%; Score 58; DB 14; Length 104;
Best Local Similarity 60.9%; Pred. No. 2.4;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARCAKRAARAARAKKRAARAARAKKR 23
DB 82 AAARKKRAAAAAAARAKK 104

RESULT 11
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
```

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; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pap
US-10-437-963-152005

Query Match      51.3%; Score 58; DB 16; Length 827;
Best Local Similarity 56.5%; Pred. No. 16;
Matches 13; Conservative 6; Mismatches 4; Indels 0; Gaps 0;

Qy      2 RCACKRAARAARAAKRAARAARAAKRA 24
Db      376 REARQRAARRAAVQCAAREARRERA 398

RESULT 12
US-10-226-007-33
; Sequence 33, Application US/10226007
; Publication No. US20030105277A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
; FILE REFERENCE: 5005.01
; CURRENT APPLICATION NUMBER: US/10/226,007
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 60/313,883
; PRIOR FILING DATE: 2001-08-21
; NUMBER OF SEQ ID NOS: 1673
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 206
; TYPE: PRT
; ORGANISM: human herpesvirus 1
US-10-226-007-33

Query Match      50.4%; Score 57; DB 14; Length 206;
Best Local Similarity 50.0%; Pred. No. 6.1;
Matches 12; Conservative 7; Mismatches 5; Indels 0; Gaps 0;

Qy      1 ARCAKGAARAARAAKRAARAARAAKRA 24
Db      78 SRQAQAARAARRARRARRAARRAQR 101

RESULT 13
US-10-425-114-69952
; Sequence 69952, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
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; SEQ ID NO 69952
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Zea mays subsp. mexicana
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROTEOSINTE070B10_FLI.pap
US-10-425-114-69952

Query Match      50.4%; Score 57; DB 12; Length 281;
Best Local Similarity 56.5%; Pred. No. 8.1;
Matches 13; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

Qy      2 RCACKRAARAARAAKRAARAARAAKRA 24
Db      1 RAAABRAQQAARAAKRAARAARAAKRA 23

RESULT 14
US-10-282-122A-53742
; Sequence 53742, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53742
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Corynebacterium diphtheriae
US-10-282-122A-53742

Query Match      50.4%; Score 57; DB 12; Length 526;
Best Local Similarity 56.5%; Pred. No. 14;
Matches 13; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

Qy      2 RCACKRAARAARAAKRAARAARAAKRA 24
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 8.95545 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-37

Perfect score: 86

Sequence: 1 ARRAKAAARRAKARCKA 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	50	58.1	162	4	US-09-252-991A-17602
2	49	57.0	488	4	US-09-252-991A-24759
3	48	55.8	134	4	US-09-252-991A-30158
4	48	55.8	213	4	US-09-252-991A-29365
5	47	54.7	360	4	US-09-252-991A-20193
6	47	54.7	907	4	US-09-252-991A-24114
7	46	53.5	200	4	US-09-252-991A-21290
8	46	53.5	1007	4	US-09-252-991A-18614
9	45	52.3	177	4	US-09-252-991A-29848
10	45	52.3	218	4	US-09-252-991A-26955
11	45	52.3	1213	3	US-09-413-814-79
12	44	51.2	145	4	US-09-252-991A-19419
13	44	51.2	156	4	US-09-252-991A-25392
14	44	51.2	189	4	US-09-252-991A-18969
15	44	51.2	216	4	US-09-252-991A-22665
16	44	51.2	218	3	US-09-041-889-4
17	44	51.2	218	3	US-08-837-058-4
18	44	51.2	218	4	US-09-417-264-4
19	44	51.2	280	4	US-09-252-991A-22385
20	44	51.2	398	4	US-08-252-991A-26177
21	44	51.2	844	4	US-08-252-991A-27184
22	43.5	50.6	146	4	US-09-252-991A-20877
23	43.5	50.6	378	4	US-09-252-991A-26944
24	43	50.0	38	2	US-08-436-703B-17
25	43	50.0	39	2	US-08-436-703B-5
26	43	50.0	118	4	US-09-252-991A-28465
27	43	50.0	142	4	US-09-252-991A-32258

ALIGNMENTS

RESULT 1

US-09-252-991A-17602
; Sequence 17602, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17602
; LENGTH: 162
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17602

Query Match 58.1%; Score 50; DB 4; Length 162;
Best Local Similarity 55.6%; Pred. No. 1.9;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKARCKA 18
Db 96 AHRQAARAAARACRA 113

RESULT 2

US-09-252-991A-24759
; Sequence 24759, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24759
; LENGTH: 488
; TYPE: PRT

Sequence 20099, A
Sequence 27204, A
Sequence 17647, A
Sequence 29127, A
Sequence 27920, A
Sequence 26224, A
Sequence 25699, A
Sequence 31292, A
Sequence 24715, A
Sequence 27377, A
Sequence 21981, A
Sequence 30704, A
Sequence 16820, A
Sequence 20302, A
Sequence 28696, A
Sequence 26049, A
Sequence 21827, A

28 43 50.0 155 4 US-09-252-991A-20099
29 43 50.0 197 4 US-09-252-991A-27204
30 43 50.0 200 4 US-09-252-991A-17647
31 43 50.0 230 4 US-09-252-991A-29127
32 43 50.0 280 4 US-09-252-991A-27920
33 43 50.0 305 4 US-09-252-991A-26224
34 43 50.0 306 4 US-09-252-991A-25699
35 43 50.0 346 3 US-09-352-991A-31292
36 42.5 49.4 330 4 US-09-252-991A-34715
37 42 48.8 126 4 US-09-252-991A-27377
38 42 48.8 135 4 US-09-252-991A-21981
39 42 48.8 166 4 US-09-252-991A-30704
40 42 48.8 299 4 US-09-252-991A-16820
41 42 48.8 338 4 US-09-252-991A-20302
42 42 48.8 341 4 US-09-252-991A-28696
43 42 48.8 411 4 US-09-252-991A-26049
44 42 48.8 531 4 US-09-252-991A-21827
45 42 48.8 1093 4 US-09-252-991A-21827

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; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24759
Query Match      57.0%; Score 49; DB 4; Length 488;
Best Local Similarity 64.7%; Pred. No. 7.5;
Matches 11; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRCKA 18
   |||||:|||||
Db 70 RPAARARAGRRRCVA 86

RESULT 3
US-09-252-991A-30158
; Sequence 30158, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30158
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30158
Query Match      55.8%; Score 48; DB 4; Length 134;
Best Local Similarity 58.8%; Pred. No. 3;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
   |||||:|||||
Db 64 ARCAAAARSARRAR 80

RESULT 4
US-09-252-991A-29365
; Sequence 29365, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29365
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29365
Query Match      55.8%; Score 48; DB 4; Length 213;
Best Local Similarity 52.9%; Pred. No. 4.7;
Matches 9; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
   |||||:|||||
Db 44 ARRVRRRRPAPARRC 60

RESULT 5
US-09-252-991A-20193
; Sequence 20193, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20193
; LENGTH: 360
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20193
Query Match      54.7%; Score 47; DB 4; Length 360;
Best Local Similarity 52.9%; Pred. No. 11;
Matches 9; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRCKA 18
   |||||:|||||
Db 16 RRRRSARRPSGRCRCA 32

RESULT 6
US-09-252-991A-24114
; Sequence 24114, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24114
; LENGTH: 907
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24114
Query Match      54.7%; Score 47; DB 4; Length 907;
Best Local Similarity 52.9%; Pred. No. 26;
Matches 9; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
   |||||:|||||
Db 95 ARRRRSRRSAARRAR 111

RESULT 7
US-09-252-991A-21290
; Sequence 21290, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
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; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21290
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21290

Query Match 53.5%; Score 46; DB 4; Length 200;
Best Local Similarity 65.2%; Pred. No. 8.6;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 4 AKAARAKAARRC 16
|||:|:|:|:|:|:|
DB 59 ARAPRAARARRC 71

RESULT 8
US-09-252-991A-18614
; Sequence 18614, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18614
; LENGTH: 1007
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18614

Query Match 53.5%; Score 46; DB 4; Length 1007;
Best Local Similarity 55.6%; Pred. No. 40;
Matches 10; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
|||:|:|:|:|:|:|
DB 14 ARRCGARSRTWARRCSA 31

RESULT 9
US-09-252-991A-29848
; Sequence 29848, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29848
; LENGTH: 177
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29848

Query Match 52.3%; Score 45; DB 4; Length 177;
Best Local Similarity 53.3%; Pred. No. 11;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 REAKAARRAKAARRC 16
|||:|:|:|:|:|:|
DB 18 RRSRCRPARARRC 32

RESULT 10
US-09-252-991A-26955
; Sequence 26955, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26955
; LENGTH: 218
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26955

Query Match 52.3%; Score 45; DB 4; Length 218;
Best Local Similarity 47.1%; Pred. No. 13;
Matches 8; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
|||:|:|:|:|:|:|
DB 32 ARRAPASRRGARRCR 48

RESULT 11
US-09-413-814-79
; Sequence 79, Application US/09413814
; Patent No. 6225064
; GENERAL INFORMATION:
; APPLICANT: Gesellschaft fuer Biotechnologische Forschung mbH
; APPLICANT: Bristol-Myers Squibb, Co.
; APPLICANT: Beyer, Stefan
; APPLICANT: Bloecker, Helmut
; APPLICANT: Brandt, Petra
; APPLICANT: Cinc, Paul M
; APPLICANT: Dougherty, Brian A
; APPLICANT: Goldberg, Steven L
; APPLICANT: Hofle, Gerhard
; APPLICANT: Mueller, Joachim
; APPLICANT: Reichenbach, Hans
; TITLE OF INVENTION: DNA sequences for enzymatic synthesis of polyketide or
; FILE REFERENCE: PCT/US 99/23535
; CURRENT APPLICATION NUMBER: US/09/413,814
; CURRENT FILING DATE: 1999-10-07
; EARLIER APPLICATION NUMBER: DE 198 46 493.2
; EARLIER FILING DATE: 1998-10-09
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 79
; LENGTH: 1213
; TYPE: PRT
; ORGANISM: Sorangium cellulosum
US-09-413-814-79

Query Match 52.3%; Score 45; DB 3; Length 1213;

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Best Local Similarity 83.3%; Pred. No. 67;
Matches 10; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 4 AKAAARRAKAARR 15
   |:|||||:|
Db 113 ARAARRAPAARR 124

RESULT 12
US-09-252-991A-19419
; Sequence 19419, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19419
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19419

Query Match 51.2%; Score 44; DB 4; Length 145;
Best Local Similarity 60.0%; Pred. No. 12;
Matches 12; Conservative 1; Mismatches 5; Indels 5; Gaps 1;

Qy 1 ARR--AKAARRAKAARRCKA 18
   |||:|||||:|
Db 13 ARRHSPAAARRAPARRACRA 32

RESULT 13
US-09-252-991A-25392
; Sequence 25392, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 25392
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25392

Query Match 51.2%; Score 44; DB 4; Length 156;
Best Local Similarity 52.9%; Pred. No. 13;
Matches 9; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy 2 RRAAKAARRAKAARRCKA 18
   |:|||||:|
Db 54 RTARSANSAPAARRSARA 70

RESULT 14
US-09-252-991A-18969
; Sequence 18969, Application US/09252991A
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; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18969
; LENGTH: 189
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18969

Query Match 51.2%; Score 44; DB 4; Length 189;
Best Local Similarity 47.1%; Pred. No. 16;
Matches 8; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

Qy 2 RRAAKAARRAKAARRCKA 18
   |:|||||:|
Db 6 RRGRTGRRARTAQRCA 22

RESULT 15
US-09-252-991A-22665
; Sequence 22665, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22665
; LENGTH: 216
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22665

Query Match 51.2%; Score 44; DB 4; Length 216;
Best Local Similarity 55.6%; Pred. No. 18;
Matches 10; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 1 ARAAKAARRAKAARRCKA 18
   |:|||||:|
Db 106 ARRTAPARCSAARRCAA 123

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OM protein - protein search, using sw model

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199.100 Million cell updates/sec

Title: US-09-496-391-37
Perfect score: 86
Sequence: 1 ARRAKARRAKARRCKA 18

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Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query No.	Score	Match	Length	ID	Description
1	50	58.1	380	16	US-10-437-963-163328	Sequence 163328,
2	49	57.0	620	16	US-10-437-963-160528	Sequence 160528,
3	48	55.8	1269	16	US-10-437-963-184740	Sequence 184740,
4	47.5	55.2	105	16	US-10-437-963-178731	Sequence 178731,
5	45	52.3	88	16	US-10-437-963-185672	Sequence 185672,
6	45	52.3	113	16	US-10-437-963-202539	Sequence 202539,
7	45	52.3	213	13	US-10-004-717-21	Sequence 21, Appl
8	45	52.3	240	16	US-10-437-963-202417	Sequence 202417,
9	45	52.3	264	16	US-10-437-963-190754	Sequence 190754,
10	45	52.3	289	16	US-10-437-963-190954	Sequence 190954,
11	45	52.3	415	16	US-10-437-963-115996	Sequence 115996,
12	45	52.3	670	16	US-10-437-963-190753	Sequence 190753,
13	45	52.3	1504	16	US-10-437-963-189251	Sequence 189251,
14	44	51.2	26	9	US-09-888-721-2	Sequence 2, Appl
15	44	51.2	26	9	US-09-888-721-32	Sequence 32, Appl

Sequence 8, Appl
Sequence 7, Appl
Sequence 2, Appl
Sequence 5, Appl
Sequence 151165,
Sequence 70601, A
Sequence 4, Appl
Sequence 1, Appl
Sequence 127, Appl
Sequence 112576,
Sequence 185113,
Sequence 5198, Ap
Sequence 43614, A
Sequence 108, App
Sequence 148046,
Sequence 7832, Ap
Sequence 174165,
Sequence 148131,
Sequence 175252,
Sequence 12462, A
Sequence 163463,
Sequence 117975,
Sequence 12370, A
Sequence 23, Appl
Sequence 143589,
Sequence 57856, A
Sequence 56818, A
Sequence 12063, A

ALIGNMENTS

RESULT 1

US-10-437-963-163328
; Sequence 163328, Application US/10437963
; Publication No. US20040123343A1
; GENESAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 163328
; LENGTH: 380
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_62334C.1.pep
US-10-437-963-163328

Query Match 58.1%; Score 50; DB 16; Length 380;
Best Local Similarity 66.7%; Pred. No. 26;
Matches 10; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRRAKARRAKARRRC 16

Db 20 RRAPARRRRRRRC 34

RESULT 2

US-10-437-963-160528

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; Sequence 160528, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 160528
; LENGTH: 620
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(620)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_59799C.1.pep
US-10-437-963-160528

Query Match 57.0%; Score 49; DB 16; Length 620;
Best Local Similarity 55.6%; Pred. No. 56;
Matches 10; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
Db 175 ARRPCAVRRRAARRCRS 192

RESULT 3
US-10-437-963-184740
; Sequence 184740, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 184740
; LENGTH: 1269
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1269)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_81704C.1.pep
US-10-437-963-184740

Query Match 55.8%; Score 48; DB 16; Length 1269;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 10; Conservative 4; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
Db 687 ARQAEAAAREEAFARACQA 704

RESULT 4
US-10-437-963-178731
; Sequence 178731, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 178731
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(105)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_76259C.1.pep
US-10-437-963-178731

Query Match 55.2%; Score 47.5; DB 16; Length 105;
Best Local Similarity 45.8%; Pred. No. 18;
Matches 11; Conservative 4; Mismatches 2; Indels 7; Gaps 1;

QY 2 RRRAK-----AARRAKAARRCKA 18
Db 13 RRARSGHGAAGRAARRRRRCRA 36

RESULT 5
US-10-437-963-185672
; Sequence 185672, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 185672
; LENGTH: 88
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(88)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_82545C.1.pep
US-10-437-963-185672

Query Match 52.3%; Score 45; DB 16; Length 88;

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Best Local Similarity 56.2%; Pred. No. 34;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRCK 17
|||:|||||:
DB 47 RRSFAGRRAGGARRAR 62

RESULT 6
US-10-437-963-202539
; Sequence 202539, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 202539
; LENGTH: 113
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_9780C.1.pap
US-10-437-963-202539

Query Match 52.3%; Score 45; DB 16; Length 113;
Best Local Similarity 50.0%; Pred. No. 43;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
|||:|||||:
DB 12 ARRSFARRRRRCRA 29

RESULT 7
US-10-004-717-21
; Sequence 21, Application US/10004717
; Publication No. US20020192665A1
; GENERAL INFORMATION:
; APPLICANT: YANG, Qi
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPEUTIC USE OF AN
; TITLE OF INVENTION: ATONAL ASSOCIATED SEQUENCE FOR DEAFNESS,
; TITLE OF INVENTION: OSTEOARTHRITIS, AND ABNORMAL CELL PROLIFERATION
; FILE REFERENCE: P01899US4
; CURRENT APPLICATION NUMBER: US/10/004,717
; CURRENT FILING DATE: 2002-08-16
; PRIOR APPLICATION NUMBER: 09/585,645
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: 60/176,993
; PRIOR FILING DATE: 2000-01-19
; PRIOR APPLICATION NUMBER: 60/137,060
; PRIOR FILING DATE: 1999-06-01
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 21
; LENGTH: 213
; TYPE: PRT
; ORGANISM: chicken
US-10-004-717-21

Query Match 52.3%; Score 45; DB 13; Length 213;
Best Local Similarity 55.6%; Pred. No. 76;

Matches 10; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 1 ARRAKAAARRAKAARRCKA 18
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DB 66 ARTAETAQRIKSRRLKA 83

RESULT 8
US-10-437-963-202417
; Sequence 202417, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 202417
; LENGTH: 240
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(240)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_9769C.1.pap
US-10-437-963-202417

Query Match 52.3%; Score 45; DB 16; Length 240;
Best Local Similarity 50.0%; Pred. No. 85;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
|||:|||||:
DB 155 ARRSFARRRRRCRA 172

RESULT 9
US-10-437-963-190754
; Sequence 190754, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190754
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_87138C.1.pap
US-10-437-963-190754

Query Match 52.3%; Score 45; DB 16; Length 264;
Best Local Similarity 50.0%; Pred. No. 92;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
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DB 78 ARRSPPAARRRRRCRA 95

RESULT 10

US-10-437-963-190954
; Sequence 190954, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190954
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_87319C.1.pap
US-10-437-963-190954

Query Match 52.3%; Score 45; DB 16; Length 289;
Best Local Similarity 64.7%; Pred. No. 1e+02;
Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCK 17
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DB 109 ARRAEAGIASAARRLR 125

RESULT 11

US-10-437-963-115996
; Sequence 115996, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 115996
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(415)
; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_1953C.1.pap
US-10-437-963-115996

Query Match 52.3%; Score 45; DB 16; Length 415;
Best Local Similarity 50.0%; Pred. No. 1.4e+02;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
||| | : : : : :
DB 218 ARRSPPAARRRRRCRA 235

RESULT 12

US-10-437-963-190753
; Sequence 190753, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 190753
; LENGTH: 670
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(670)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_87137C.1.pap
US-10-437-963-190753

Query Match 52.3%; Score 45; DB 16; Length 670;
Best Local Similarity 50.0%; Pred. No. 2.1e+02;
Matches 9; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRCKA 18
||| | : : : : :
DB 285 ARRSPPAARRRRRCRA 302

RESULT 13

US-10-437-963-189251
; Sequence 189251, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 189251

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; LENGTH: 1504
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_85779C.1.pep
US-10-437-963-189251

Query Match      52.3%; Score 45; DB 16; Length 1504;
Best Local Similarity 56.2%; Pred. No. 4.5e+02;
Matches 9; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 3 RAKAARRAKAARRCKA 18
Db 1323 RITQRRMRMSARRCKA 1338

RESULT 14
US-09-888-721-2
Sequence 2, Application US/09888721
Patent No. US20020132990A1
GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-2

Query Match      51.2%; Score 44; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ARRAKARRAKAARRCKA 18
Db 1 AKKAKSPKAKAARPKKA 18

RESULT 15
US-09-888-721-32
Sequence 32, Application US/09888721
Patent No. US20020132990A1
GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 26
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-32

Query Match      51.2%; Score 44; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 16;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ARRAKARRAKAARRCKA 18
Db 1 AKKAKSPKAKAARPKKA 18

Search completed: August 17, 2004, 17:19:19
Job time : 29.3812 secs
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 5.9703 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-38

Perfect score: 59

Sequence: 1 AKCKRAAKAKRA 12

Scoring table: BLOSUM62

Gapop. 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	38	64.4	60	1	US-08-346-849-16
2	38	64.4	60	2	US-08-253-284A-16
3	38	64.4	60	4	US-08-898-300-16
4	38	64.4	192	4	US-09-252-991A-23268
5	37	62.7	367	4	US-09-252-991A-29742
6	37	62.7	955	4	US-09-252-991A-18882
7	36	61.0	450	4	US-09-252-991A-18376
8	36	61.0	621	4	US-09-198-452A-389
9	36	61.0	641	4	US-09-252-991A-26994
10	35	59.3	181	4	US-09-252-991A-17818
11	35	59.3	200	4	US-09-252-991A-18739
12	35	59.3	390	4	US-09-252-991A-22732
13	34	57.6	143	4	US-09-252-991A-30965
14	34	57.6	163	4	US-09-543-681A-7133
15	34	57.6	361	4	US-09-543-681A-5390
16	34	57.6	521	4	US-09-252-991A-27321
17	34	57.6	536	4	US-09-449-632-2
18	34	57.6	1091	3	US-09-306-595C-7
19	34	57.6	1091	4	US-09-925-388-7
20	33.5	56.8	682	1	US-08-441-139-2
21	33	55.9	28	2	US-08-620-151-129
22	33	55.9	98	4	US-09-252-991A-26215
23	33	55.9	103	3	US-09-041-889-39
24	33	55.9	103	4	US-09-417-264-39
25	33	55.9	116	3	US-09-041-889-38
26	33	55.9	116	4	US-09-417-264-38
27	33	55.9	158	3	US-09-041-889-40

28	33	55.9	158	4	US-09-417-264-40	Sequence 40, Appl
29	33	55.9	171	4	US-09-252-991A-20639	Sequence 20639, A
30	33	55.9	186	4	US-09-252-991A-32250	Sequence 32250, A
31	33	55.9	222	3	US-09-041-889-3	Sequence 3, Appli
32	33	55.9	222	3	US-08-837-058-3	Sequence 3, Appli
33	33	55.9	222	4	US-09-417-264-3	Sequence 3, Appli
34	33	55.9	226	3	US-09-041-889-32	Sequence 32, Appl
35	33	55.9	226	4	US-09-417-264-32	Sequence 32, Appl
36	33	55.9	287	4	US-09-252-991A-28597	Sequence 28597, A
37	33	55.9	365	4	US-09-252-991A-31439	Sequence 31439, A
38	33	55.9	679	4	US-09-543-681A-4843	Sequence 4843, Ap
39	33	55.9	822	4	US-09-489-039A-8709	Sequence 8709, Ap
40	33	55.9	1043	2	US-08-724-354D-4	Sequence 4, Appli
41	33	55.9	1043	3	US-09-270-984A-4	Sequence 4, Appli
42	33	55.9	1118	2	US-08-724-354D-2	Sequence 2, Appli
43	33	55.9	1118	3	US-09-270-984A-2	Sequence 2, Appli
44	33	55.9	2396	1	US-08-157-005-2	Sequence 2, Appli
45	33	55.9	2396	3	US-08-747-863-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-346-849-16

Query Match 64.4%; Score 38; DB 1; Length 60;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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QY 1 AKCKRAAKAKKA 12
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Db 18 AKRKAARAKKA 29

RESULT 2
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293.284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-293-284A-16

Query Match 64.4%; Score 38; DB 2; Length 60;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKKA 12
   ||| |||||:|
Db 18 AKRKAARAKKA 29

RESULT 3
US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/898.300
; FILING DATE: 22-JULY-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/346,849
; FILING DATE: 30-NOVEMBER-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DECEMBER-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008PB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 861-6240
; TELEFAX: (781) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-898-300-16

Query Match 64.4%; Score 38; DB 4; Length 60;
Best Local Similarity 75.0%; Pred. No. 16;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKKA 12
   ||| |||||:|
Db 18 AKRKAARAKKA 29

RESULT 4
US-09-252-991A-23268
; Sequence 23268, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23268
; LENGTH: 192
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23268

Query Match 64.4%; Score 38; DB 4; Length 192;
Best Local Similarity 63.6%; Pred. No. 45;
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Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKR 11
Db 114 APCKGASGRASR 124

RESULT 5
US-09-252-991A-29742
; Sequence 29742, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29742
; LENGTH: 367
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29742

Query Match 62.7%; Score 37; DB 4; Length 367;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
Db 19 AGCVRAASARRA 30

RESULT 6
US-09-252-991A-18882
; Sequence 18882, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18882
; LENGTH: 955
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18882

Query Match 62.7%; Score 37; DB 4; Length 955;
Best Local Similarity 63.6%; Pred. No. 2.7e+02;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 2 KCKRAAKAKRA 12
Db 38 KCSRAAPTQRS 48

RESULT 7
US-09-252-991A-18376
; Sequence 18376, Application US/09252991A
; Patent No. 6551795

GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18376
; LENGTH: 450
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18376

Query Match 61.0%; Score 36; DB 4; Length 450;
Best Local Similarity 66.7%; Pred. No. 2e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AKCKRAAKA 9
Db 355 SRCRAAKA 363

RESULT 8
US-09-198-452A-389
; Sequence 389, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Grifais, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 389
; LENGTH: 621
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-09-198-452A-389

Query Match 61.0%; Score 36; DB 4; Length 621;
Best Local Similarity 70.0%; Pred. No. 2.6e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 2 KCKRAAKAKR 11
Db 162 KCKRLGKAMR 171

RESULT 9
US-09-252-991A-26994
; Sequence 26994, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26994
; LENGTH: 641

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; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26994

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Query Match 61.0%; Score 36; DB 4; Length 641;
Best Local Similarity 41.7%; Pred. No. 2.7e+02;
Matches 5; Conservative 5; Mismatches 2; Indels

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Qy      1 AKCKRAAKAKRA 12
        ::|||::||
Db     119 SRCFRAGRCRRA 130
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RESULT 10
US-09-252-991A-17818
; Sequence 17818, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17818
; LENGTH: 181
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-17818

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Qy 1 AKCFRAKAKR 11
: | | | : |
Db 9 SSCARAPARR 19

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RESULT 11
US-09-252-991A-18739
; Sequence 18739, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18739
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18739

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Qy      1 AKCKRAAKAKRA 12
        ::::|::|
Db     151 SRCRRRAAAARS 162
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RESULT 12
US-09-252-991A-22732
; Sequence 22732, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22732
; LENGTH: 390
; TYPE: prt
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22732

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Qy      2 KCKRAAKAKR 11
         :|:|:|:|
Db     259 RCRRRAARAGR 268

```

RESULT 13
US-09-252-991A-30965
Sequence 30965, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30965
LENGTH: 143
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30965

Qy 1 AKCKRAAKAKRA 12
| | | | | | | |
Db 74 AACRRASGATRA 85

RESULT 14
US-09-543-681A-7133
; Sequence 7133, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001

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; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 7133
; LENGTH: 163
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-7133

Query Match      57.6%; Score 34; DB 4; Length 163;
Best Local Similarity 58.3%; Pred. No. 1.6e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
Db 80 AKCLKAKKAEMA 91

RESULT 15
US-09-543-681A-5390
; Sequence 5390, Application US/09543681A
; Patent No. 6605709
; GENERAL INFORMATION:
; APPLICANT: GARY BRETON
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
; TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709.1002-001
; CURRENT APPLICATION NUMBER: US/09/543,681A
; CURRENT FILING DATE: 2000-04-05
; PRIOR APPLICATION NUMBER: US 60/128,706
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 8344
; SEQ ID NO 5390
; LENGTH: 361
; TYPE: PRT
; ORGANISM: Proteus mirabilis
US-09-543-681A-5390

Query Match      57.6%; Score 34; DB 4; Length 361;
Best Local Similarity 66.7%; Pred. No. 3.3e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
Db 224 AKAKAAAEAKAA 235

Search completed: August 17, 2004, 16:14:38
Job time : 5.9703 secs
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 18.9208 Seconds
(without alignments)
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Title: US-09-496-391-38

Perfect score: 59

Sequence: 1 AKCKRAAKAKRA 12

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Searched: 1292805 seqs, 313927144 residues

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Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Published Applications AA:*

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- 2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep:*
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- 10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep:*
- 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep:*
- 17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	39	66.1	556	14	US-10-156-761-14502
2	38	64.4	60	16	Sequence 14502, A
3	38	64.4	606	15	Sequence 16, Appl
4	38	64.4	734	16	US-10-369-493-13278
5	38	64.4	1039	16	Sequence 13278, A
6	37	62.7	103	16	Sequence 122190,
7	37	62.7	601	12	US-10-437-963-122190
8	36	61.0	67	16	Sequence 148841,
9	36	61.0	106	12	US-10-437-963-131597
10	36	61.0	138	14	Sequence 131597,
11	36	61.0	241	9	Sequence 55143, A
12	36	61.0	241	12	US-10-001-885-94
13	36	61.0	284	16	Sequence 94, Appl
14	36	61.0	304	16	Sequence 12462, A
15	36	61.0	326	16	US-10-156-761-12462
					Sequence 745, App
					Sequence 745, App
					Sequence 147, App
					Sequence 111630,
					Sequence 174627,

16	36	61.0	372	12	US-10-282-122A-68109	Sequence 68109, A
17	36	61.0	437	15	US-10-264-049-2443	Sequence 2443, A
18	36	61.0	613	12	US-10-282-122A-54801	Sequence 54801, A
19	36	61.0	621	15	US-10-289-762-389	Sequence 389, Appl
20	36	61.0	694	10	US-09-405-920-2	Sequence 2, Appl
21	36	61.0	708	15	US-10-144-194A-112	Sequence 112, App
22	36	61.0	708	15	US-10-648-153-158	Sequence 158, App
23	36	61.0	750	15	US-10-144-194A-78	Sequence 78, Appl
24	36	61.0	769	15	US-10-144-194A-76	Sequence 76, Appl
25	36	61.0	791	15	US-10-144-194A-74	Sequence 74, Appl
26	35	59.3	49	12	US-10-424-599-199249	Sequence 199249,
27	35	59.3	116	16	US-10-437-963-108077	Sequence 108077,
28	35	59.3	129	16	US-10-437-963-134206	Sequence 134206,
29	35	59.3	153	16	US-10-437-963-165065	Sequence 165065,
30	35	59.3	298	16	US-10-437-963-156788	Sequence 156788,
31	35	59.3	344	15	US-10-369-493-1440	Sequence 1440, Ap
32	35	59.3	727	14	US-10-128-714-3205	Sequence 3205, Ap
33	35	59.3	764	12	US-10-282-122A-46624	Sequence 46624, A
34	35	59.3	856	14	US-10-128-714-8205	Sequence 8205, Ap
35	35	59.3	984	12	US-10-282-122A-50177	Sequence 50177, A
36	35	59.3	1733	15	US-10-437-963-193694	Sequence 193694,
37	34	57.6	97	12	US-10-424-599-201366	Sequence 201366,
38	34	57.6	107	16	US-10-437-963-121785	Sequence 121785,
39	34	57.6	132	16	US-10-437-963-180641	Sequence 180641,
40	34	57.6	138	16	US-10-437-963-121784	Sequence 121784,
41	34	57.6	145	12	US-10-424-599-247158	Sequence 247158,
42	34	57.6	171	16	US-10-437-963-121248	Sequence 121248,
43	34	57.6	171	16	US-10-437-963-126403	Sequence 126403,
44	34	57.6	191	16	US-10-437-963-126402	Sequence 126402,
45	34	57.6	227	12	US-10-425-114-38060	Sequence 38060, A

ALIGNMENTS

RESULT 1

US-10-156-761-14502
; Sequence 14502, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SHIBAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 14502
; LENGTH: 556
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-14502

Query Match 66.1%; Score 39; DB 14; Length 556;
Best Local Similarity 66.7%; Pred. No. 2.6e+02;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKRA 12

Db 527 AOCERAAAAARA 538

RESULT 2

US-10-390-472-16

; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; Zhang, Shuguang
; Rich, Alexander
; Dipersio, C. Michael
; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.125
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994
; APPLICATION NUMBER: 07/573,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:

US-10-390-472-16
Query Match 64.4%; Score 38; DB 16; Length 60;
Best Local Similarity 75.0%; Pred. No. 47;
Matches 9; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKKA 12
DB 18 AKRKAARAKKA 29

RESULT 3
US-10-389-493-13278
; Sequence 13278, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 13278
; LENGTH: 606
; TYPE: PRT
; ORGANISM: Aspergillus nidulans
US-10-369-493-13278

Query Match 64.4%; Score 38; DB 15; Length 606;
Best Local Similarity 90.0%; Pred. No. 4.1e+02;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 AKCKRAAKAK 10
DB 71 AKDKRAAKAK 80

RESULT 4
US-10-437-963-122190
; Sequence 122190, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 122190
; LENGTH: 734
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_25141C.1.pep
US-10-437-963-122190

Query Match 64.4%; Score 38; DB 16; Length 734;
Best Local Similarity 63.6%; Pred. No. 4.9e+02;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKR 11
DB 105 AKCRPADARR 115

RESULT 5
US-10-437-963-148841
; Sequence 148841, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 148841
; LENGTH: 1039
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_49232C.1.pep
US-10-437-963-148841

Query Match 64.4%; Score 38; DB 16; Length 1039;
Best Local Similarity 63.6%; Pred. No. 6.8e+02;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KCRAAKAKKA 12
||| |
Db 404 RCRARAAKKA 414

RESULT 6
US-10-437-963-131597
; Sequence 131597, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53321)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 131597
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_33649C.1.pep
US-10-437-963-131597

Query Match 62.7%; Score 37; DB 16; Length 103;
Best Local Similarity 58.3%; Pred. No. 1.1e+02;
Matches 7; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 1 AKCRAAKAKKA 12
||| |
Db 75 AACGRAARSKS 86

RESULT 7
US-10-282-122A-55143
; Sequence 55143, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55143
; LENGTH: 601
; TYPE: PRT
; ORGANISM: Chlamydia trachomatis
US-10-282-122A-55143

Query Match 62.7%; Score 37; DB 12; Length 601;
Best Local Similarity 63.6%; Pred. No. 5.9e+02;
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCRAAKAKR 11
||| |
Db 151 AKCKLGRAMR 161

RESULT 8
US-10-437-963-188535
; Sequence 188535, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 188535
; LENGTH: 67
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_8512C.1.pep
US-10-437-963-188535

Query Match 61.0%; Score 36; DB 16; Length 67;
Best Local Similarity 66.7%; Pred. No. 1.1e+02;
Matches 6; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AKCRAAKA 9
||| |
Db 34 ACRCRAARA 42

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RESULT 9
US-10-001-885-94
; Sequence 94, Application US/10001885
; Publication No. US20040058319A1
; GENERAL INFORMATION:
; APPLICANT: Salceda, Susana
; APPLICANT: Macina, Roberto
; APPLICANT: Recipon, Hervé
; APPLICANT: Cafférkey, Robert
; APPLICANT: Sun, Yongming
; APPLICANT: Liu, Chenghua
; TITLE OF INVENTION: Compositions and Methods Relating to Ovary Specific Genes and Pro
; FILE REFERENCE: DEX-0279
; CURRENT APPLICATION NUMBER: US/10/001,885
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: 60/252,061
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: 60/253,257
; PRIOR FILING DATE: 2000-11-27
; NUMBER OF SEQ ID NOS: 167
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 94
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-001-885-94

Query Match          61.0%; Score 36; DB 12; Length 106;
Best Local Similarity 70.0%; Pred. No. 1.7e+02;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 KCKRAAKAKR 11
Db 90 KCKRKKKKR 99

RESULT 10
US-10-156-761-12462
; Sequence 12462, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12462
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12462

Query Match          61.0%; Score 36; DB 14; Length 138;
Best Local Similarity 72.7%; Pred. No. 2.2e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKCKRAAKAKR 11
Db 16 AKAAARVAKAKR 26

RESULT 11
US-09-925-302-745
; Sequence 745, Application US/09925302
; Patent No. US20020044941A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 745
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (34)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (39)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (40)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-302-745

Query Match          61.0%; Score 36; DB 9; Length 241;
Best Local Similarity 54.5%; Pred. No. 3.6e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 2 KCKRAAKAKRA 12
Db 208 KCKKAASSSKA 218

RESULT 12
US-09-925-302-745
; Sequence 745, Application US/09925302
; Publication No. US20030064072A9
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA104
; CURRENT APPLICATION NUMBER: US/09/925,302
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05918
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 896
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 745
; LENGTH: 241
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; LOCATION: (31)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (34)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
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/ LOCATION: (39)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
/ NAME/KEY: SITE
/ LOCATION: (40)
/ OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-302-745

Query Match          61.0%; Score 36; DB 12; Length 241;
Best Local Similarity 54.5%; Pred. No. 3.6e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KCKRAAKAKRA 12
   |||:|:|:|:|
Db 208 KCKRAASSSKA 218

RESULT 13
US-10-408-765A-147
; Sequence 147, Application US/10408765A
; Publication No. US20040101874A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Soumitra S.
; APPLICANT: Fahy, Eoin D.
; APPLICANT: Zhang, Bing
; APPLICANT: Gibson, Bradford W.
; APPLICANT: Taylor, Steven W.
; APPLICANT: Glenn, Gary M.
; APPLICANT: Warlock, Dale E.
; TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION
; FILE REFERENCE: 660088.465
; CURRENT APPLICATION NUMBER: US/10/408.765A
; CURRENT FILING DATE: 2003-04-04
; NUMBER OF SEQ ID NOS: 3077
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-408-765A-147

Query Match          61.0%; Score 36; DB 16; Length 284;
Best Local Similarity 54.5%; Pred. No. 4.2e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KCKRAAKAKRA 12
   |||:|:|:|:|
Db 251 KCKRAASSSKA 261

RESULT 14
US-10-437-963-111630
; Sequence 111630, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 111630
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Oryza sativa
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/ FEATURE:
/ OTHER INFORMATION: Clone ID: PAT_MRT4530_15591C.1.pep
US-10-437-963-111630

Query Match          61.0%; Score 36; DB 16; Length 304;
Best Local Similarity 58.3%; Pred. No. 4.5e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
   |||:|:|:|:|
Db 161 SKCARAKAEFKRA 172

RESULT 15
US-10-437-963-174627
; Sequence 174627, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437.963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 174627
; LENGTH: 326
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(326)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_7254C.1.pep
US-10-437-963-174627

Query Match          61.0%; Score 36; DB 16; Length 326;
Best Local Similarity 66.7%; Pred. No. 4.8e+02;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKCKRAAKAKRA 12
   |||:|:|:|:|
Db 74 AKATRAAKKKRA 85

Search completed: August 17, 2004, 17:19:20
Job time : 19.9208 secs
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 14.9257 Seconds
(without alignments)
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Title: US-09-496-391-41
Perfect score: 135
Sequence: 1 AKKARAARAKKARAARAKKARA 30

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents 2A:*
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5: /cgn2_6/ptodata/2/iaa/PCOTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	94	69.6	223	3	US-09-095-855-201
2	94	69.6	223	4	US-09-205-426-201
3	77	57.0	109	4	US-09-405-743A-7
4	73.5	54.4	469	4	US-09-489-039A-13565
5	70	51.9	29	1	US-08-152-488-12
6	70	51.9	29	1	US-08-303-025-14
7	70	51.9	29	1	US-08-677-304-12
8	70	51.9	29	2	US-08-436-703B-16
9	70	51.9	60	1	US-08-346-849-16
10	70	51.9	60	2	US-08-293-284A-16
11	70	51.9	60	4	US-08-898-300-16
12	68.5	50.7	1507	3	US-08-929-329-5
13	68	50.4	218	3	US-08-041-889-4
14	68	50.4	218	3	US-08-837-058-4
15	68	50.4	218	4	US-08-417-264-4
16	67.5	50.0	32	1	US-08-152-488-13
17	67.5	50.0	32	1	US-08-303-025-15
18	67.5	50.0	32	1	US-08-677-304-13
19	67.5	50.0	32	2	US-08-436-703B-2
20	67.5	50.0	33	1	US-08-303-025-16
21	67.5	50.0	33	2	US-08-436-703B-4
22	67	49.6	48	3	US-08-993-008A-5
23	67	49.6	56	3	US-08-993-008A-6
24	67	49.6	100	2	US-08-460-890A-63
25	67	49.6	100	2	US-08-460-890A-64
26	67	49.6	100	3	US-08-167-641C-63
27	67	49.6	100	3	US-08-167-641C-64

28	67	49.6	100	3	US-08-460-971A-63	Sequence 63, Appl
29	67	49.6	100	3	US-08-460-971A-64	Sequence 64, Appl
30	67	49.6	100	3	US-08-462-040-63	Sequence 63, Appl
31	67	49.6	100	3	US-08-462-040-64	Sequence 64, Appl
32	65	48.1	79	4	US-09-107-532A-7073	Sequence 7073, Ap
33	64	47.4	77	4	US-08-405-743A-5	Sequence 5, Appl
34	64	47.4	86	4	US-08-405-743A-6	Sequence 6, Appl
35	63.5	47.0	56	4	US-09-405-743A-3	Sequence 3, Appl
36	63	46.7	29	1	US-08-152-488-3	Sequence 3, Appl
37	63	46.7	29	1	US-08-303-025-3	Sequence 3, Appl
38	63	46.7	29	1	US-08-677-304-3	Sequence 8, Appl
39	63	46.7	29	2	US-08-436-703B-8	Sequence 29581, A
40	63	46.7	407	4	US-09-252-991A-29581	Sequence 4, Appl
41	62.5	46.3	66	4	US-09-405-743A-4	Sequence 13743, A
42	62.5	46.3	207	4	US-09-489-039A-13743	Sequence 23085, A
43	62	45.9	181	4	US-09-252-991A-23085	Sequence 10, Appl
44	61.5	45.6	29	1	US-08-152-488-10	Sequence 11, Appl
45	61.5	45.6	29	1	US-08-152-488-11	

ALIGNMENTS

RESULT 1
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein


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/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 29 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: N/A
/ TOPOLOGY: N/A
/ MOLECULE TYPE: peptide
/ ORIGINAL SOURCE:
/ ORGANISM: N/A
/ PUBLICATION INFORMATION:
/ AUTHORS: N/A
/ TITLE: N/A
/ DOCUMENT NUMBER: PCT/US92/08069
/ FILING DATE: 14-AUG-1993
/
US-08-303-025-14
Query Match 51.9%; Score 70; DB 1; Length 29;
Best Local Similarity 70.4%; Pred. No. 0.014;
Matches 19; Conservative 4; Mismatches 2; Indels 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
Db 2 KKAACKKAACKKAACKKAACKK 28

RESULT 6
US-08-303-025-14
Sequence 14, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSER: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS v.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A

US-08-152-488-12
Query Match 51.9%; Score 70; DB 1; Length 29;
Best Local Similarity 70.4%; Pred. No. 0.014;
Matches 19; Conservative 4; Mismatches 2; Indels 2; Gaps 2;

QY 3 KAAAKKA-RAAKKA-RAAKKAAK 27
Db 2 KKAACKKAACKKAACKKAACKK 28

RESULT 7
US-08-677-304-12
Sequence 12, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSER: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-12

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Query Match	51.9%;	Score 70;	DB 1;	Length 29;
Best Local Similarity	70.4%;	Pred. No.	0.014;	
Matches	19;	Conservative	4;	Mismatches 2; Indels
Qy	3	KAAAKKA-KAARKA-RAAKKAFAPAAKK	27	
Dd	2	KKAACKAKKA-KAKKA-KAAKKAACAKK	28	

RESULT 8
 US-08-436-703B-16
 ; Sequence 16, Application US/08436703B
 ; Patent No. 5919761
 ; GENERAL INFORMATION:
 ; APPLICANT: Wakefield, Thomas W.
 ; APPLICANT: Andrews, Philip C.
 ; APPLICANT: Stanley, James C.
 ; TITLE OF INVENTION: NOVEL PEPTIDES FOR
 ; TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
 ; TITLE OF INVENTION: WEIGHT HEPARIN
 ; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 ; NUMBER OF SEQUENCES: 18
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Benita J, Rohm, Esq.
 ; STREET: 6601 Woodward Avenue
 ; STREET: Suite 1525
 ; CITY: Detroit
 ; STATE: Michigan
 ; COUNTRY: United States of America
 ; ZIP: 48226
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: MS-DOS
 ; SOFTWARE: WordPerfect 6;
 ; SOFTWARE: ASCII (DOS)Text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/436,703B
 ; FILING DATE: 08-MAY-1995
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: N/A
 ; FILING DATE: N/A
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Rohm, Benita J.
 ; REGISTRATION NUMBER: 28,664
 ; REFERENCE/DOCKET NUMBER: 7MK-060548-00233
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 313-965-1976
 ; TELEFAX: 313-965-1951
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 29 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: N/A
 ; TOPOLOGY: N/A
 ; MOLECULE TYPE: peptide
 ; ORIGINAL SOURCE:
 ; ORGANISM: N/A
 ; PUBLICATION INFORMATION:
 ; AUTHORS: N/A
 ; TITLE: N/A
 ; US-08-436-703B-16

RESULT 9
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/346,849
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,326
FILING DATE: 28 DECEMBER 1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-346-849-16

Query Match 51.9%; Score 70; DB 1; Length 60;
Best Local Similarity 58.1%; Pred.No. 0.027;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 2;

QY 1 AKKAAAKKARAANKAARAK--KARAARKAR 29
||| ||| ||| ||| ||| ||| ||| ||| :
Db 11 AKKAAAKKARAANKAARAKKPKKKAAKKAK 41
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RESULT 10
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: DiPersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive

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/ CITY: Lexington
/ STATE: Massachusetts
/ COUNTRY: U.S.A.
/ ZIP: 02173-4799
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/293,284A
/ FILING DATE: 22-AUG-1994
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/973,326
/ FILING DATE: 28-DEC-1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brook, David E.
/ REGISTRATION NUMBER: 22,592
/ REFERENCE/DOCKET NUMBER: MIT-6008A
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 60 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-293-284A-16

Query Match          51.9%; Score 70; DB 2; Length 60;
Best Local Similarity 58.1%; Pred. No. 0.027;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;

QY      1 AKKAAAKKAAKAAKAAK--KARAANKAR 29
      ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      11 AKKAAAKKAAKAAKAAKPKKAAKAAK 41

RESULT 11
US-08-898-300-16
/ Sequence 16, Application US/08898300
/ Patent No. 6548630
/ GENERAL INFORMATION:
/ APPLICANT: Zhang, Shuguang
/ APPLICANT: Lockshin, Curtis
/ APPLICANT: Rich, Alexander
/ APPLICANT: Holmes, Todd
/ TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
/ TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
/ TITLE OF INVENTION: THEREFOR
/ NUMBER OF SEQUENCES: 64
/ CORRESPONDENCE ADDRESS:
/ ADDRESSSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
/ STREET: Two Militia Drive
/ CITY: Lexington
/ STATE: Massachusetts
/ COUNTRY: U.S.A.
/ ZIP: 02173-4799
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.25
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/898,300
/ FILING DATE: 22 JULY 1997
/ CLASSIFICATION: 514
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/346,849
/ FILING DATE: 30 NOVEMBER 1994
/ PRIOR APPLICATION DATA:
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/ APPLICATION NUMBER: 07/973,326
/ FILING DATE: 28 DECEMBER 1992
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brook, David E.
/ REGISTRATION NUMBER: 22,592
/ REFERENCE/DOCKET NUMBER: MIT-6008FB
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (781) 861-6240
/ TELEFAX: (781) 861-9540
/ INFORMATION FOR SEQ ID NO: 16:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 60 amino acids
/ TYPE: amino acid
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
/ US-08-898-300-16

Query Match          51.9%; Score 70; DB 4; Length 60;
Best Local Similarity 58.1%; Pred. No. 0.027;
Matches 18; Conservative 4; Mismatches 7; Indels 2; Gaps 1;

QY      1 AKKAAAKKAAKAAKAAK--KARAANKAR 29
      ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      11 AKKAAAKKAAKAAKAAKPKKAAKAAK 41

RESULT 12
US-08-929-329-5
/ Sequence 5, Application US/08929329
/ Patent No. 6120770
/ GENERAL INFORMATION:
/ APPLICANT: Adams, John H
/ APPLICANT: Dalton, John P
/ APPLICANT: Kappe, Stefan
/ TITLE OF INVENTION: Plasmodium Proteins Useful for Preparing
/ TITLE OF INVENTION: Vaccine Compositions
/ NUMBER OF SEQUENCES: 23
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Barnes & Thornburg
/ STREET: 11 S Meridian
/ CITY: Indianapolis
/ STATE: Indiana
/ COUNTRY: USA
/ ZIP: 46204
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: PatentIn Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/929,329
/ FILING DATE:
/ CLASSIFICATION: 424
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Breen, John P
/ REGISTRATION NUMBER: 38,833
/ REFERENCE/DOCKET NUMBER: 835910-28685
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (317) 231-7745
/ TELEFAX: (317) 231-7433
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1507 amino acids
/ TYPE: amino acid
/ STRANDEDNESS:
/ TOPOLOGY: unknown
/ MOLECULE TYPE: protein
/ HYPOTHETICAL: NO
/ ANTI-SENSE: NO
/ ORIGINAL SOURCE:
/ ORGANISM: Plasmodium yoelii
/ US-08-929-329-5
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1	94	223	13	US-10-0511-643-201	Sequence 201, Appl
2	94	69.6	223	US-10-0511-643-201	Sequence 52, Appl
3	94	69.6	223	US-10-0511-643-201	Sequence 52, Appl
4	77.5	57.4	428	US-10-282-122A-55748	Sequence 55748, A
5	77	57.0	109	US-09-816-989A-7	Sequence 55748, A
6	72	53.3	243	US-09-771-161A-127	Sequence 127, Appl
7	52.6	62	323	US-10-282-122A-59321	Sequence 59321, A
8	71	51.9	60	US-10-390-472-16	Sequence 16, Appl
9	70	51.9	60	US-10-390-472-16	Sequence 16, Appl
10	70	51.9	372	US-10-156-761-10321	Sequence 10321, A
11	69.5	51.5	272	US-10-282-122A-68109	Sequence 68109, A
12	68	50.4	55	US-10-156-761-12370	Sequence 12370, A
13	68	50.4	66	US-10-240-430-8	Sequence 8, Appl
14	68	50.4	130	US-10-240-430-7	Sequence 7, Appl
15	68	50.4	130	US-10-262-209-2	Sequence 2, Appl
16	68	50.4	130	US-10-340-430-5	Sequence 5, Appl
17	68	50.4	218	US-10-329-567-4	Sequence 4, Appl

; PRIOR APPLICATION NUMBER: JP 2001-272697
 ; PRIOR FILING DATE: 2001-08-02
 ; NUMBER OF SEQ ID NOS: 15109
 ; SEQ ID NO 10221
 ; LENGTH: 217
 ; TYPE: PRT
 ; ORGANISM: Streptomyces avermitilis
 US-10-156-761-10221

Query Match 51.9%; Score 70; DB 14; Length 217;
 Best Local Similarity 60.0%; Pred. No. 0.22;
 Matches 18; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1 AKKARAARAKKARAARAKKARA 30
 DB 128 AKKATAAAKTTAKKTTAKKAAAPAAKKT 157

RESULT 9
 US-10-282-122A-68109
 ; Sequence 68109, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 68109
 ; LENGTH: 372
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas putida
 US-10-282-122A-68109

Query Match 51.9%; Score 70; DB 12; Length 372;
 Best Local Similarity 64.3%; Pred. No. 0.36;
 Matches 18; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 1 AKKARAARAKKARAARAKKARA 28

DB 118 AKKAEADAARAKKAAAEAKKAAEAKKA 145

RESULT 10
 US-10-156-761-12370
 ; Sequence 12370, Application US/10156761
 ; Publication No. US20030119018A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OMURA, SATOSHI
 ; APPLICANT: IKEDA, HARUO
 ; APPLICANT: ISHIKAWA, JUN
 ; APPLICANT: HORIKAWA, HIROSHI
 ; APPLICANT: SHIBA, TADAYOSHI
 ; APPLICANT: SAKAKI, YOSHIYUKI
 ; APPLICANT: HATTORI, MASAHIRA
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 ; FILE REFERENCE: 249-262
 ; CURRENT APPLICATION NUMBER: US/10/156,761
 ; CURRENT FILING DATE: 2002-05-29
 ; PRIOR APPLICATION NUMBER: JP 2001-204089
 ; PRIOR FILING DATE: 2001-05-30
 ; PRIOR APPLICATION NUMBER: JP 2001-272697
 ; PRIOR FILING DATE: 2001-08-02
 ; NUMBER OF SEQ ID NOS: 15109
 ; SEQ ID NO 12370
 ; LENGTH: 272
 ; TYPE: PRT
 ; ORGANISM: Streptomyces avermitilis
 US-10-156-761-12370

Query Match 51.5%; Score 69.5; DB 14; Length 272;
 Best Local Similarity 51.4%; Pred. No. 0.31;
 Matches 18; Conservative 5; Mismatches 7; Indels 5; Gaps 1;

QY 1 AKKARAARAKKARAARAKKARA 30
 DB 88 AAAAKAAKAAKAAKAAKAAKAAKAA 122

RESULT 11
 US-10-240-430-8
 ; Sequence 8, Application US/10240430
 ; Publication No. US20040110928A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Crisanti, Andrea
 ; APPLICANT: Essegghir, Selma
 ; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
 ; FILE REFERENCE: GJE-6402
 ; CURRENT APPLICATION NUMBER: US/10/240,430
 ; CURRENT FILING DATE: 2003-04-15
 ; PRIOR APPLICATION NUMBER: PCT/GB01/01697
 ; PRIOR FILING DATE: 2001-04-12
 ; PRIOR APPLICATION NUMBER: UK 0102667.3
 ; PRIOR FILING DATE: 2001-02-02
 ; PRIOR APPLICATION NUMBER: UK 0009080.3
 ; PRIOR FILING DATE: 2000-04-12
 ; NUMBER OF SEQ ID NOS: 14
 ; SOFTWARE: Patent in version 3.1
 ; SEQ ID NO 8
 ; LENGTH: 55
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-240-430-8

Query Match 50.4%; Score 68; DB 16; Length 55;
 Best Local Similarity 51.7%; Pred. No. 0.1;
 Matches 15; Conservative 9; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAARAKKARAARAKKARAARAKKARA 30
 DB 1 KKAARAKKARAARAKKARAARAKKARA 29

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RESULT 12
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegshir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-7

Query Match          50.4%; Score 68; DB 16; Length 66;
Best Local Similarity 51.7%; Pred. No. 0.23;
Matches 15; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAAAKKARAARAAKKAARAAKKAARA 30
Db 1 KKAKPAAAGAKKAKSPKKAARAKPKKA 29

RESULT 13
US-10-262-209-2
; Sequence 2, Application US/10262209
; Publication No. US2003012539A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegshir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262,209
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: UK 0218324.2
; PRIOR FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-209-2

Query Match          50.4%; Score 68; DB 14; Length 130;
Best Local Similarity 51.7%; Pred. No. 0.23;
Matches 15; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAAAKKARAARAAKKAARAAKKAARA 30
Db 65 KKAKPAAAGAKKAKSPKKAARAKPKKA 93

RESULT 14
US-10-240-430-5
; Sequence 5, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegshir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-5

Query Match          50.4%; Score 68; DB 16; Length 130;
Best Local Similarity 51.7%; Pred. No. 0.23;
Matches 15; Conservative 5; Mismatches 9; Indels 0; Gaps 0;

QY 2 KKAAAKKARAARAAKKAARAAKKAARA 30
Db 65 KKAKPAAAGAKKAKSPKKAARAKPKKA 93

RESULT 15
US-10-229-567-4
; Sequence 4, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Uicerative Colitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/229,567
; FILING DATE: 27-Aug-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 09/041,889
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
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Result No.	Score	Match	Query	Length	DB	ID	Description	SUMMARY
1	112.5	62.5	407	4	US-09-252-991A-29581	Sequence 29581, A		
2	97	53.9	214	3	US-09-041-889-27	Sequence 27, Appl		
3	97	53.9	214	4	US-09-041-889-27	Sequence 27, Appl		
4	94.5	52.5	60	1	US-08-346-849-16	Sequence 16, Appl		
5	94.5	52.5	60	2	US-08-293-284A-16	Sequence 16, Appl		
6	94.5	52.5	60	4	US-08-293-284A-16	Sequence 16, Appl		
7	94	52.2	49	3	US-08-898-300-16	Sequence 16, Appl		
8	94	52.2	49	3	US-08-995-173-14	Sequence 14, Appl		
9	94	52.2	49	3	US-08-839-624-26	Sequence 26, Appl		
10	94	52.2	49	4	US-09-150-812-26	Sequence 26, Appl		
11	88.5	49.2	399	4	US-09-252-991A-32957	Sequence 32957, A		
12	88.5	49.2	469	4	US-09-252-991A-32853	Sequence 32853, A		
13	87	48.3	37	3	US-09-489-039A-13565	Sequence 13565, A		
14	87	48.3	37	4	US-08-839-624-25	Sequence 25, Appl		
15	87	48.3	38	3	US-09-150-812-25	Sequence 25, Appl		
16	87	48.3	38	4	US-08-995-173-21	Sequence 21, Appl		
17	84.5	46.9	33	4	US-09-023-4085-5	Sequence 5, Appl		
18	84.5	46.9	33	2	US-08-303-025-16	Sequence 16, Appl		
19	83.5	46.4	61	3	US-08-436-703B-4	Sequence 4, Appl		
20	83.5	46.4	61	1	US-08-346-849-17	Sequence 17, Appl		
21	83.5	46.4	61	2	US-08-293-284A-17	Sequence 17, Appl		
22	83.5	46.4	61	4	US-08-898-300-17	Sequence 17, Appl		
23	83	46.1	37	3	US-09-405-743A-7	Sequence 7, Appl		
24	83	46.1	38	3	US-08-995-173-13	Sequence 13, Appl		
25	83	46.1	39	4	US-08-995-173-22	Sequence 22, Appl		
26	83	46.1	214	4	US-09-023-4085-6	Sequence 6, Appl		
27	83	46.1	468	4	US-09-328-353-5169	Sequence 5169, A		
28	83	46.1	468	4	US-09-328-353-6321	Sequence 6321, A		

INFORMATION FOR SEQ ID NO: 27:

RESULT 5

5 J. H. S. S. S. S.

```
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 595343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Diersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-293-284A-16

Query Match 52.5%; Score 94.5; DB 2; Length 60;
Best Local Similarity 60.0%; Pred. No. 0.00017;
Matches 24; Conservative 4; Mismatches 9; Indels 3; Gaps 1;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 40
Db 11 AKKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 47

RESULT 6
US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
```

```
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/898,300
FILING DATE: 22 JULY 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/346,849
FILING DATE: 30 NOVEMBER 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,326
FILING DATE: 28 DECEMBER 1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008PB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781) 861-6240
TELEFAX: (781) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-898-300-16

Query Match 52.5%; Score 94.5; DB 4; Length 60;
Best Local Similarity 60.0%; Pred. No. 0.00017;
Matches 24; Conservative 4; Mismatches 9; Indels 3; Gaps 1;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 40
Db 11 AKKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 47

RESULT 7
US-08-995-172-14
; Sequence 14, Application US/08995172B
; Patent No. 6218112
; GENERAL INFORMATION:
; APPLICANT: Thatcher, David R
; APPLICANT: Wilks, Paula E
; TITLE OF INVENTION: Optimization of Gene Delivery and Gene Delivery Systems
; FILE REFERENCE: CAC0026
; CURRENT APPLICATION NUMBER: US/08/995,172B
; CURRENT FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/033,908
; EARLIER FILING DATE: 1996-12-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 14
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; NAME/KEY: UNSURE
; LOCATION: (49)
; OTHER INFORMATION: Xaa is Cys with Acm sidechain
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Peptide
US-08-995-172-14

Query Match 52.2%; Score 94; DB 3; Length 49;
Best Local Similarity 56.4%; Pred. No. 0.00016;
Matches 22; Conservative 5; Mismatches 12; Indels 0; Gaps 0;
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RESULT 11
US-09-252-991A-22853
; Sequence 22853, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22853
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22853

Query Match 49.2%; Score 88.5; DB 4; Length 399;
Best Local Similarity 59.1%; Pred. No. 0.0044;
Matches 26; Conservative 0; Mismatches 13; Indels 5; Gaps 1;

QY 1 ARKAAKAAKAAKAAK-----AAKKAARKAAKAAKAAKAAKAAK 39
Db 306 AAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAK 349

RESULT 12
US-09-489-039A-13565
; Sequence 13565, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13565
; LENGTH: 469
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13565

Query Match 49.2%; Score 88.5; DB 4; Length 469;
Best Local Similarity 54.9%; Pred. No. 0.0051;
Matches 28; Conservative 2; Mismatches 10; Indels 11; Gaps 2;

QY 1 ARKAAKAAKAAKAAK-----KAARKKAAKAAKAAKAAKAAK 40
Db 280 AKAAXAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAK 330

RESULT 13
US-08-839-624-25
; Sequence 25, Application US/08839624
; Patent No. 6225045
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; FILE REFERENCE: HIV INFECTION
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22853
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22853

Query Match 49.2%; Score 88.5; DB 4; Length 399;
Best Local Similarity 59.1%; Pred. No. 0.0044;
Matches 26; Conservative 0; Mismatches 13; Indels 5; Gaps 1;

QY 1 ARKAAKAAKAAKAAK-----AAKKAARKAAKAAKAAKAAK 39
Db 306 AAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAK 349

RESULT 14
US-09-150-812-25
; Sequence 25, Application US/09150812
; Patent No. 6395891
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; FILE REFERENCE: HIV INFECTION
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13565
; LENGTH: 469
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13565

Query Match 49.2%; Score 88.5; DB 4; Length 469;
Best Local Similarity 54.9%; Pred. No. 0.0051;
Matches 28; Conservative 2; Mismatches 10; Indels 11; Gaps 2;

QY 1 ARKAAKAAKAAKAAK-----KAARKKAAKAAKAAKAAKAAK 40
Db 280 AKAAXAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAK 330

RESULT 15
US-08-839-624-25
; Sequence 25, Application US/08839624
; Patent No. 6225045
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; FILE REFERENCE: HIV INFECTION
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22853
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22853

Query Match 49.2%; Score 88.5; DB 4; Length 399;
Best Local Similarity 59.1%; Pred. No. 0.0044;
Matches 26; Conservative 0; Mismatches 13; Indels 5; Gaps 1;

QY 1 ARKAAKAAKAAKAAK-----AAKKAARKAAKAAKAAKAAK 39
Db 306 AAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAK 349
```

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STREET: One Financial Center
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/839,624
FILING DATE: April 15, 1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/78191
FILING DATE: 15-Apr-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/017,268
FILING DATE: 13-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Kathleen M. Williams
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3255/5390
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-345-9100
TELEFAX: 617-345-9111
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 37 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
US-08-839-624-25

Query Match 48.3%; Score 87; DB 3; Length 37;
Best Local Similarity 55.6%; Pred. No. 0.00073;
Matches 20; Conservative 5; Mismatches 11; Indels 0; Gaps 0;

QY 3 KKAAXAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAA 38
Db 1 KKSPPKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAA 36

RESULT 14
US-09-150-812-25
; Sequence 25, Application US/09150812
; Patent No. 6395891
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; FILE REFERENCE: HIV INFECTION
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US/09/489,039A
; PRIOR FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13565
; LENGTH: 469
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13565

Query Match 49.2%; Score 88.5; DB 4; Length 469;
Best Local Similarity 54.9%; Pred. No. 0.0051;
Matches 28; Conservative 2; Mismatches 10; Indels 11; Gaps 2;

QY 1 ARKAAKAAKAAKAAK-----KAARKKAAKAAKAAKAAKAAK 40
Db 280 AKAAXAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAKAAK 330

RESULT 15
US-08-839-624-25
; Sequence 25, Application US/08839624
; Patent No. 6225045
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATTING
; FILE REFERENCE: HIV INFECTION
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22853
; LENGTH: 399
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-22853

Query Match 49.2%; Score 88.5; DB 4; Length 399;
Best Local Similarity 59.1%; Pred. No. 0.0044;
Matches 26; Conservative 0; Mismatches 13; Indels 5; Gaps 1;

QY 1 ARKAAKAAKAAKAAK-----AAKKAARKAAKAAKAAKAAK 39
Db 306 AAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAKPAK 349
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CURRENT FILING DATE:	2003-02-20
PRIOR APPLICATION NUMBER:	60/191,078
PRIOR FILING DATE:	2000-03-21
PRIOR APPLICATION NUMBER:	60/206,848
PRIOR FILING DATE:	2000-05-23
PRIOR APPLICATION NUMBER:	60/207,727
PRIOR FILING DATE:	2000-05-26
PRIOR APPLICATION NUMBER:	60/230,335
PRIOR FILING DATE:	2000-09-06
PRIOR APPLICATION NUMBER:	60/230,347
PRIOR FILING DATE:	2000-09-09
PRIOR APPLICATION NUMBER:	60/242,578
PRIOR FILING DATE:	2000-10-23
PRIOR APPLICATION NUMBER:	60/253,625
PRIOR FILING DATE:	2000-11-27
PRIOR APPLICATION NUMBER:	60/257,931
PRIOR FILING DATE:	2000-12-22
PRIOR APPLICATION NUMBER:	60/257,936


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match      59.9%; Score 106; DB 12; Length 336;
Best Local Similarity 60.5%; Pred. No. 0.00031;
Matches 23; Conservative 9; Mismatches 6; Indels 0; Gaps 0;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 38
Db 158 AKKAARAAKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 195

RESULT 5
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
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; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match      55.0%; Score 99; DB 12; Length 428;
Best Local Similarity 62.5%; Pred. No. 0.0022;
Matches 25; Conservative 2; Mismatches 13; Indels 0; Gaps 0;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 40
Db 198 AAKKAADAAQKKAARAAEAARKKAQAEAKKAARAAAKAAAA 237

RESULT 6
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pap
US-10-437-963-152005

Query Match      54.2%; Score 97.5; DB 16; Length 827;
Best Local Similarity 47.1%; Pred. No. 0.006;
Matches 24; Conservative 11; Mismatches 5; Indels 11; Gaps 1;

Qy 1 ARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKAARKKA 40
Db 378 ARQRAAAVQKAAAREARRAAARERAAARERAAARERAAARERAAAKAAAEAKERVAAERAAKA 428

RESULT 7
US-10-282-122A-62547
; Sequence 62547, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
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; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64817
; LENGTH: 214
; TYPE: PRT
; ORGANISM: Mycobacterium tuberculosis
US-10-282-122A-64817

Query Match          53.9%; Score 97; DB 12; Length 214;
Best Local Similarity 67.5%; Pred. No. 0.0019;
Matches 27; Conservative 1; Mismatches 10; Indels 2; Gaps 0

QY      3 KKAAKAAKKAAXA-AKKKAAGAARKKAA-KAARKKAAKA 40
       |||||
Db     121 KKATAAKKAATKAPAKKAATKAPAKKAATKAPAKKA 160
       |||||

RESULT 9
US-10-229-567-27
; Sequence 27, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes of
Microbial UC pANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/229,567
FILING DATE: 27-Aug-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE: <Unknown>
APPLICATION NUMBER: US 09/041,889
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 27:
US-10-229-567-27

Query Match          53.9%; Score 97; DB 14; Length 214;
Best Local Similarity 67.5%; Pred. No. 0.0019;
Matches 27; Conservative 1; Mismatches 10; Indels 2; Gaps 0
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RESULT 11
US-10-282-122A-76514
; Sequence 76514, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITPA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625

MOLECULE TYPE: protein


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; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50803
; LENGTH: 875
; TYPE: PRT
; ORGANISM: Bordetella pertussis
US-10-282-122A-50803

Query Match      52.2%  Score 94;  DB 12;  Length 875;
Best Local Similarity 63.4%;  Pred. No. 0.015;
Matches 26;  Conservative 1;  Mismatches 12;  Indels 2;  Gaps 1;

Qy      1  ARKAAKAAKKAARKKAAKKAARKKAA--KAARKKAAK 39
      | | | | | | | | | | | | | | | | | | | |
Db      827 AKKAAGKTATKTAAPAKTAAKKAAPKKAATKTAAK 867

Search completed: August 17, 2004, 17:19:21
Job time : 64.0693 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-43
Perfect score: 108
Sequence: 1 AKKAAKAAKKAARKKAAKA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep.*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	71	65.7	407	4	US-09-252-991A-29581
2	65	60.2	214	3	US-09-041-889-27
3	65	60.2	214	4	US-09-417-264-27
4	64	59.3	32	1	US-08-152-488-13
5	64	59.3	32	1	US-08-303-025-15
6	64	59.3	32	1	US-08-677-304-13
7	64	59.3	32	2	US-08-436-703B-2
8	64	59.3	33	1	US-08-303-025-16
9	64	59.3	33	2	US-08-436-703B-4
10	63.5	58.8	60	1	US-08-346-849-16
11	63.5	58.8	60	2	US-08-293-284A-16
12	63.5	58.8	60	4	US-08-898-300-16
13	61.5	56.9	29	1	US-08-152-488-12
14	61.5	56.9	29	1	US-08-303-025-14
15	61.5	56.9	29	2	US-08-677-304-12
16	61.5	56.9	29	2	US-08-436-703B-16
17	61	56.5	28	1	US-08-303-025-12
18	61	56.5	28	2	US-08-436-703B-1
19	60.5	56.0	316	4	US-09-252-991A-32957
20	60	55.6	29	1	US-08-152-488-10
21	60	55.6	29	1	US-08-436-703B-11
22	60	55.6	29	1	US-08-303-025-10
23	60	55.6	29	1	US-08-303-025-11
24	60	55.6	29	1	US-08-303-025-13
25	60	55.6	29	1	US-08-677-304-10
26	60	55.6	29	1	US-08-677-304-11
27	60	55.6	29	2	US-08-436-703B-3

28 Sequence 15, Appl
29 Sequence 22853, A
30 Sequence 13, Appl
31 Sequence 25, Appl
32 Sequence 25, Appl
33 Sequence 21, Appl
34 Sequence 22, Appl
35 Sequence 5, Appl
36 Sequence 6, Appl
37 Sequence 14, Appl
38 Sequence 26, Appl
39 Sequence 26, Appl
40 Sequence 6, Appl
41 Sequence 7, Appl
42 Sequence 13565, A
43 Patent No. 5273901
44 Patent No. 5482709
45 Sequence 6, Appl

29 2 US-08-436-703B-15
399 4 US-09-252-991A-22853
37 3 US-08-995-172-13
37 3 US-08-839-624-25
37 4 US-09-150-812-25
37 3 US-08-995-172-21
38 3 US-08-995-172-22
38 3 US-08-995-172-21
38 4 US-09-023-406B-5
38 4 US-09-023-406B-6
39 3 US-08-995-172-14
49 3 US-08-839-624-26
49 4 US-09-150-812-26
61 3 US-08-995-172-7
61 3 US-08-995-172-6
469 4 US-09-489-039A-13565
180 6 5273901-7
180 6 5482709-6
269 4 US-09-408-020-6

ALIGNMENTS

RESULT 1
US-09-252-991A-29581
; Sequence 29581, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29581
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29581

Query Match 65.7%; Score 71; DB 4; Length 407;
Best Local Similarity 65.2%; Pred No. 0.079; 2; Indels 0; Gaps 0;
Matches 15; Conservative 6; Mismatches 2;

Oy 1 AKKAAKAAKKAARKKAAK 23
Db 223 AKKAAEDAKKKAADAKKAAE 245

RESULT 2
US-09-041-889-27
; Sequence 27, Application US/09041889
; Patent No. 6033864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Chavry, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/837,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 60.2%; Score 65; DB 3; Length 214;
Best Local Similarity 62.5%; Pred. No. 0.23;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

OY 1 ARKKAARKAAKKAARKAAKA 24
DB 111 AKVAKKAPAKKATKAATKA 134

RESULT 3
US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27

Query Match 60.2%; Score 65; DB 4; Length 214;
Best Local Similarity 62.5%; Pred. No. 0.23;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

OY 1 ARKKAARKAAKKAARKAAKA 24
DB 111 AKVAKKAPAKKATKAATKA 134

RESULT 4
US-08-152-488-13
Sequence 13, Application US/08152488
Patent No. 5534619
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-13

Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.053;

Matches	17;	Conservative	2;	Mismatches	5;	Indels	2;	Gaps	1;
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Qy 1 ARKKAAR--KKAARKKA 24
| | | | : | | | : | |
Dp 5 AAKKAARKKAARKKA 30

RESULT 5

US-08-303-025-15
; Sequence 15, Application US/08303025
; Patent No. 5614494

GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16

NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
City: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415

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; FILE: 10220-1112
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; COMPUTER READABLE FORM:
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; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb

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[illegible]

; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/303,025
 ; FILING DATE: 08-SEPT-1994

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; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:

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; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: PCT/US92/06829
 ; FILING DATE: 14 AUG-1992

; FILING DATE: 14-AUG-1992
 ; APPLICATION NUMBER: US 08/152,488
 ; FILING DATE: 12 NOV 1992

FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:

NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231

TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622

TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids

TYPE: amino acid
STRANDEDNESS: N/A

TOPOLOGY: N/A

MOLECULE TYPE: peptide
ORIGINAL SOURCE: OBICANTISM, N/A

ORGANISM: N/A
PUBLICATION INFORMATION: N/A

AUTHORS: N/A
TITLE: N/A

DOCUMENT NUMBER: PCT/U
FILING DATE: 14-AUG-19

US-08-303-025-15

Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.053;
Matches 17; Conservative 2; Mismatches 5; Indels

[illegible]

Qy 1 ARKKAAR--KKAARAKKA 24
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Qy 5 ARKKAARAKKAARAKKA 30
| | | | | : | | | | |
Qy 1 ARKKAARAKKAARAKKA 30
| | | | | : | | | | |

RESULT 6

US-08-677-304-13

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Sequence 13, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J, Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-13

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Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.053;
Matches 17; Conservative 2; Mismatches 5; Indels

QY 1 ARKKAAR--KKAARKKA 24
| | | | | : | | | | |
Dp 5 AAKKAKAARKKAARKKA 30
| | | | | : | | | | |

RESULT 7

US-08-436-703B-2
; Sequence 2, Application US/08436703B
; Patent No. 5919761

; PATENT NO. 3919761
 ; GENERAL INFORMATION:
 ; APPLICANT: Wakefield Thomas W

APPLICANT: WAKELIELD, THOMAS W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.

APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR

TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
 WEIGHT HEPARIN
 TITLE OF INVENTION: WEIGHT HEPARIN
 TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 NUMBER OF SEQUENCES: 18
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Benita J, Rohm, Esq.
 STREET: 6601 Woodward Avenue
 STREET: Suite 1525
 CITY: Detroit
 STATE: Michigan
 COUNTRY: United States of America
 ZIP: 48226
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Wordperfect 6;
 SOFTWARE: ASCII (DOS)Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/436,703B
 FILING DATE: 08-MAY-1995
 CLASSIFICATION: 5:14
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: N/A
 FILING DATE: N/A
 ATTORNEY/AGENT INFORMATION:
 NAME: Rohm, Benita J.
 REGISTRATION NUMBER: 28,664
 REFERENCE/DOCKET NUMBER: 7WK-060548-00233
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 313-965-1976
 TELEFAX: 313-965-1951
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 32 amino acids
 TYPE: amino acid
 STRANDEDNESS: N/A
 TOPOLOGY: N/A
 MOLECULE TYPE: peptide
 ORIGINAL SOURCE:
 ORGANISM: N/A
 PUBLICATION INFORMATION:
 AUTHORS: N/A
 TITLE: N/A
 US-08-436-703B-2

Query Match 59.3%; Score 64; DB 2; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.053;
Matches 17; Conservative 2; Mismatches 5; Indels

Qy 1 ARKGAAKAAR--KKAAKAARKKA 24
| | | | | : | | | | |
Db 5 AAKGAAGAAGAAGAAGAAGAAGA 30
| | | | | : | | | | |

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RESULT 8
US-08-303-025-16
; Sequence 16, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT, HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J, Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America

```

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1  ZIP: 48226-4415
2
3  COMPUTER READABLE FORM:
4
5  MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
6
7  COMPUTER: IBM PC compatible
8
9  OPERATING SYSTEM: MS-DOS v.6.22
10
11 SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
12
13 CURRENT APPLICATION DATA:
14
15 APPLICATION NUMBER: US/08/303,025
16
17 FILING DATE: 08-SEP-1994
18
19 CLASSIFICATION: 514
20
21 PRIOR APPLICATION DATA:
22
23 APPLICATION NUMBER: PCT/US92/06829
24
25 FILING DATE: 14-AUG-1992
26
27 APPLICATION NUMBER: US 08/152,488
28
29 FILING DATE: 12-NOV-1993
30
31 ATTORNEY/AGENT INFORMATION:
32
33 NAME: Rohm, Benita J.
34
35 REFERENCE/DOCKET NUMBER: 7MH-060548-00231
36
37 TELECOMMUNICATION INFORMATION:
38
39 TELEPHONE: 313-496-7822
40
41 TELEFAX: 313-496-8454
42
43 INFORMATION FOR SEQ ID NO: 16:
44
45 SEQUENCE CHARACTERISTICS:
46
47 LENGTH: 33 amino acids
48
49 TYPE: amino acid
50
51 STRANDEDNESS: N/A
52
53 TOPOLOGY: N/A
54
55 MOLECULE TYPE: peptide
56
57 ORIGINAL SOURCE:
58
59 ORGANISM: N/A
60
61 PUBLICATION INFORMATION:
62
63 AUTHORS: N/A
64
65 TITLE: N/A
66
67 DOCUMENT NUMBER: PCT/US92/08069
68
69 FILING DATE: 14-AUG-1993
70
71 US-08-303-025-16

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Query Match 59.3%; Score 64; DB 1; Length 33;
Best Local Similarity 65.4%; Pred. No. 0.055;
Matches 17; Conservative 2; Mismatches 5; Indels

Qy 1 ARKAAAKAAR--KKAAKAARAKKA 24
| | | | | : | | | | |
Db 6 AAKKAAKKAAKKAAKKAAGKKAAKKA 31

RESULT 9

RESULT 9
US-08-436-703B-4
; Sequence 4, Application US/08436703B
; Patent No. 5919761

PATENT NO. 5919751
 GENERAL INFORMATION:
 APPLICANT: Wakefield, Thomas W.
 APPLICANT: Andrews, Philip C.
 APPLICANT: Stanley, James C.
 TITLE OF INVENTION: NOVEL PEPTIDES FOR
 TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
 WEIGHT HEPARIN
 TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 NUMBER OF SEQUENCES: 18
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Benita J. Rohm, Esq.
 STREET: 6601 Woodward Avenue
 STREET: Suite 1525
 CITY: Detroit
 STATE: Michigan
 COUNTRY: United States of America
 ZIP: 48226
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Wordperfect 6;
 SOFTWARE: ASCII [DOS]Text

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/436,703B
;; FILING DATE: 08-MAY-1995
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: N/A
;; FILING DATE: N/A
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Rohm, Benita J.
;; REGISTRATION NUMBER: 28,664
;; REFERENCE/DOCKET NUMBER: 7WK-060548-00233
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 313-965-1976
;; TELEFAX: 313-965-1951
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 33 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: N/A
;; TOPOLOGY: N/A
;; MOLECULE TYPE: peptide
;; ORIGINAL SOURCE:
;; ORGANISM: N/A
;; PUBLICATION INFORMATION:
;; AUTHORS: N/A
;; TITLE: N/A
;; US-08-436-703B-4

Query Match 59.3%; Score 64; DB 2; Length 33;
Best Local Similarity 65.4%; Pred. No. 0.055;
Matches 17; Conservative 5; Mismatches 5; Indels 2; Gaps 1;

QY 1 ARKKAAR--KKAARAKKA 24
DB 6 AAKKAARAKKAARAKKA 31

RESULT 10
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 28-DEC-1992
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-293-284A-16

Query Match 58.8%; Score 63.5; DB 2; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKAARAKKA 23
DB 11 AKKAARAKKAARAKKA 38

;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 861-6240
;; TELEFAX: (617) 861-9540
;; INFORMATION FOR SEQ ID NO: 16:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 60 amino acids
;; TYPE: amino acid
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; US-08-346-849-16

Query Match 58.8%; Score 63.5; DB 1; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKA 23
DB 11 AKKAARAKKAARAKKA 38

RESULT 11
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-293-284A-16

Query Match 58.8%; Score 63.5; DB 2; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAKKAARAKKA 23
DB 11 AKKAARAKKAARAKKA 38

Db 11 AKKAAAAR KAAAKAKKPKKAAK 38

RESULT 12

US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USSES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/898,300
; FILING DATE: 22 JULY 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/346,849
; FILING DATE: 30 NOVEMBER 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008FB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 861-6240
; TELEFAX: (781) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-898-300-16

Query Match 58.8%; Score 63.5; DB 4; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.11;
Matches 17: Conservative 2; Mismatches 4; Indels 5; Gaps 1;

Qy 1 ARKKAARKAKA-----ARKKAAK 23
 : ||||| ||| ||||| : |||||
Dd 11 AKKAAAARAKKAAAKAKKAPKKAAK 38

RESULT 13

US-08-152-488-12
; Sequence 12, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN

/ TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 / NUMBER OF SEQUENCES: 13
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Benita J. Rohm, Esq.
 / STREET: 512 Springfield Avenue
 / CITY: Cranford
 / STATE: New Jersey
 / COUNTRY: United States of America
 / ZIP: 07016-1811
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: MS-DOS
 / SOFTWARE: WordPerfect 6; ASCII (DOS)Text
 / CURRENT APPLICATION DATA: US/08/152,488
 / FILING DATE: 12-NOV-1993
 / CLASSIFICATION: 514
 / PRIOR APPLICATION DATA:
 / APPLICATION NUMBER: PCT/US92/08069
 / FILING DATE: 14-AUG-1993
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Rohm, Benita J.
 / REGISTRATION NUMBER: 28,664
 / REFERENCE/DOCKET NUMBER: RM-WVG
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 908-276-3344
 / TELEFAX: 908-276-5543
 / INFORMATION FOR SEQ ID NO: 12:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 29 amino acids
 / TYPE: amino acid
 / STRANDEDNESS: N/A
 / TOPOLOGY: N/A
 / MOLECULE TYPE: peptide
 / ORIGINAL SOURCE:
 / ORGANISM: N/A
 / PUBLICATION INFORMATION:
 / AUTHORS: N/A
 / TITLE: N/A
 / PUBLICATION INFORMATION:
 / DOCUMENT NUMBER: PCT/US92/08069
 / FILING DATE: 14-AUG-1993
 / US-08-152-488-12

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Best Local Similarity 69.6%; Pred. No. 0.098;
Matches 16; Conservative 4; Indels 1; Caps 1;

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Db 2 KKAAKKA - KKAARKKA 23

RESULT 14
US-08-303-025-14
; Sequence 14, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J, Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS v.6.22
SOFTWARE: Wordperfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06629
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7MH-060548-00231
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

Query Match 56.9%; Score 61.5; DB 1; Length 29;
Best Local Similarity 69.6%; Pred. NO. 0.098;
Matches 16; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY 2 RKKAARKKAARKKAARKKA 24
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
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SOFTWARE: Wordperfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06629
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7MH-060548-00231
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

Query Match 56.9%; Score 61.5; DB 1; Length 29;
Best Local Similarity 69.6%; Pred. NO. 0.098;
Matches 16; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

QY 2 RKKAARKKAARKKAARKKA 24
:|||||:|||||:|||||:
Db 2 KKAARKKA-KKAARKKAARKKA 23

RESULT 15
US-08-677-304-12
; Sequence 12, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677,304
; FILING DATE:
; CLASSIFICATION: 530

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds

(without alignments)
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Title: US-09-496-391-43

Perfect score: 108

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Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	ID	Description
1	72	66.7	372	12	US-10-282-122A-68109 Sequence 68109, A
2	71	65.7	347	12	US-10-282-122A-66237 Sequence 66237, A
3	71	65.7	347	14	US-10-127-032-120 Sequence 120, App
4	70	64.8	336	12	US-10-282-122A-69962 Sequence 69962, A
5	67.5	62.5	258	14	US-10-156-761-9957 Sequence 9957, App
6	67	62.0	685	15	US-10-369-493-3684 Sequence 3684, App
7	65	60.2	214	12	US-10-282-122A-62547 Sequence 62547, A
8	65	60.2	214	14	US-10-329-567-27 Sequence 27, App
9	65	60.2	428	12	US-10-282-122A-55748 Sequence 55748, A
10	65	60.2	21	12	US-10-169-613-13 Sequence 13, App
11	64.5	59.7	21	12	US-10-390-472-16 Sequence 16, App
12	63.5	58.8	60	16	US-10-424-599-185724 Sequence 185724, A
13	63	58.3	61	12	US-10-282-122A-78190 Sequence 78190, A
14	63	58.3	388	12	US-10-437-963-152005 Sequence 152005, A
15	63	58.3	827	16	US-10-437-963-152005 Sequence 152005, A

16	61	56.5	526	12	US-10-282-122A-53742 Sequence 53742, A
17	61	56.5	777	14	US-10-128-714-8221 Sequence 8221, App
18	60.5	56.0	309	10	US-09-820-843A-24 Sequence 24, App
19	60	55.6	54	12	US-10-424-599-198985 Sequence 198985, A
20	60	55.6	67	12	US-10-393-449-54 Sequence 54, App
21	60	55.6	67	12	US-10-393-449-104 Sequence 104, App
22	60	55.6	67	14	US-10-177-725-54 Sequence 54, App
23	60	55.6	67	14	US-10-177-725-104 Sequence 104, App
24	60	55.6	75	12	US-10-393-449-53 Sequence 53, App
25	60	55.6	75	12	US-10-393-449-103 Sequence 103, App
26	60	55.6	75	14	US-10-177-725-53 Sequence 53, App
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28	60	55.6	83	12	US-10-393-449-52 Sequence 52, App
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31	60	55.6	83	14	US-10-177-725-102 Sequence 102, App
32	60	55.6	91	12	US-10-393-449-51 Sequence 51, App
33	60	55.6	91	12	US-10-393-449-101 Sequence 101, App
34	60	55.6	91	14	US-10-177-725-51 Sequence 51, App
35	60	55.6	91	14	US-10-177-725-101 Sequence 101, App
36	60	55.6	104	12	US-10-393-449-47 Sequence 47, App
37	60	55.6	104	12	US-10-393-449-97 Sequence 97, App
38	60	55.6	104	14	US-10-177-725-47 Sequence 47, App
39	60	55.6	104	14	US-10-177-725-97 Sequence 97, App
40	60	55.6	105	12	US-10-393-449-43 Sequence 43, App
41	60	55.6	105	12	US-10-393-449-93 Sequence 93, App
42	60	55.6	105	14	US-10-177-725-43 Sequence 43, App
43	60	55.6	105	14	US-10-177-725-93 Sequence 93, App
44	60	55.6	106	12	US-10-393-449-44 Sequence 44, App
45	60	55.6	106	12	US-10-393-449-45 Sequence 45, App

ALIGNMENTS

RESULT 1

US-10-282-122A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Chlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Cart, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636

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; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68109

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Query Match 66.7%; Score 72; DB 12; Length 372;
Best Local Similarity 65.2%; Pred. No. 0.24;
Matches 15; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

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Db 184 AKKAAEDAKKAAEEAKKAAE 206

RESULT 2
US-10-282-122A-66237
/ Sequence 66237, Application US/10282122A
/ Publication No. US20040029129A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Liangsu
/ APPLICANT: Zamudio, Carlos
/ APPLICANT: Malone, Cheryl
/ APPLICANT: Hasselbeck, Robert
/ APPLICANT: Ohlsen, Kari
/ APPLICANT: Zyskind, Judith
/ APPLICANT: Wall, Daniel
/ APPLICANT: Trawick, John
/ APPLICANT: Carr, Grant
/ APPLICANT: Yamamoto, Robert
/ APPLICANT: Forsyth, R.
/ APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-03-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-03-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16
 Remaining Prior Application data removed - See File Wrapper or PALM.
 NUMBER OF SEQ ID NOS: 78614
 SOFTWARE: PatentIn version 3.1

SEQ ID NO 66237
LENGTH: 347
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-66237

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; Sequence 120, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Bangera, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-0700CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
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; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-120

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Query Match 65.7%; Score 71; DB 14; Length 347;
Best Local Similarity 65.2%; Pred. No. 0.3;
Matches 15; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY
Ddb

1 ARKKAARKKAARAKAARKKAARK 23
| : | : | : | : | : | : | : | :
163 AKKKAEDAKKKAEDAKKKAED 185

RESULT 4
 ; Sequence 69962, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1.
; SEQ ID NO 69962
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match          64.8%; Score 70; DB 12; Length 336;
Best Local Similarity 68.2%; Pred. No. 0.38;
Matches 15; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARKKAARAKKAAKAAKAA 22
:|||||:|||||:|||||
Db 174 AKKAEDAKKAAEDAKKAA 195

RESULT 5
US-10-156-761-9957
; Sequence 9957, Application US/10156761
; Publication No. US2003019018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 9957
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-9957

Query Match          62.5%; Score 67.5; DB 14; Length 258;
Best Local Similarity 68.0%; Pred. No. 0.59;
Matches 17; Conservative 4; Mismatches 3; Indels 1; Gaps 1;

QY 1 ARKKAARAKKAAKAAKAA 24
:|||||:|||||:|||||
Db 88 AKKABEARKKAAELAEKAA 112

RESULT 6
US-10-369-493-3684
; Sequence 3684, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3684
; LENGTH: 685
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(685)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3684

Query Match          62.0%; Score 67; DB 15; Length 685;
Best Local Similarity 65.2%; Pred. No. 1.8;
Matches 15; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 RKKAAKAAKAAKAAKAAKAA 24
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Db 587 KKKAAKKARKEAQAEREAEKA 609

RESULT 7
US-10-282-122A-62547
; Sequence 62547, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62547
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APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match 60.2%; Score 65; DB 12; Length 428;
Best Local Similarity 66.7%; Pred. No. 2;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARKKAARAAARKKAARKKAARAA 24
DB 214 AAKKAARAAARKKAARAAARKKAARAA 237

RESULT 11
US-10-169-613-13
; Sequence 13, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkhal, Cystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Soltstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: antimicrobial peptide
US-10-169-613-13

Query Match 59.7%; Score 64.5; DB 12; Length 21;
Best Local Similarity 81.0%; Pred. No. 0.12;
Matches 17; Conservative 1; Mismatches 2; Indels 1; Gaps 1;
QY 1 ARKKAARAAARKKAARKKAARAA 21
DB 2 AAKKAARAA-KKAARAAARAA 21
RESULT 12
US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match 58.8%; Score 63.5; DB 16; Length 60;
Best Local Similarity 60.7%; Pred. No. 0.43;
Matches 17; Conservative 2; Mismatches 4; Indels 5; Gaps 1;

QY 1 ARKKAARAAARKKAARAA-----ARKKAAR 23
DB 11 AKKKAARAAARKKAARAAARKKAAR 38

RESULT 13
US-10-424-599-185724
; Sequence 185724, Application US/10424599
; Publication No. US20040031072A1

; PRIOR FILING DATE: 2001-02-16
 : Remaining Prior Application data removed - See File Wrapper or PALM.

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OM protein - protein search, using sw model
Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-44
Perfect score: 132
Sequence: 1 GRKKGKGGKGGKGGKGGKGGK 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues
Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pcp.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	87	65.9	641	4	US-09-249-585A-3
2	87	65.9	641	4	US-09-410-399-4
3	80	60.6	29	1	US-08-152-488-4
4	80	60.6	29	1	US-08-303-025-4
5	80	60.6	29	1	US-08-677-304-4
6	80	60.6	29	2	US-08-436-703B-9
7	76	57.6	29	1	US-08-152-488-5
8	76	57.6	29	1	US-08-303-025-5
9	76	57.6	29	1	US-08-677-304-5
10	76	57.6	29	2	US-08-436-703B-10
11	75	56.8	29	1	US-07-694-983-14
12	74	56.1	20	1	US-07-694-983-13
13	74	56.1	260	4	US-09-561-366B-12
14	74	56.1	260	4	US-10-114-176-12
15	68	51.5	29	1	US-08-152-488-7
16	68	51.5	29	1	US-08-303-025-7
17	68	51.5	29	1	US-08-677-304-7
18	68	51.5	29	2	US-08-436-703B-12
19	66	50.0	586	4	US-09-252-991A-24994
20	65	49.2	178	4	US-09-489-039A-8236
21	65	49.2	223	1	US-07-667-276A-10
22	65	49.2	714	2	US-08-990-114-3
23	65	49.2	714	4	US-09-241-333-3
24	64.5	48.9	112	4	US-09-543-681A-8319
25	64	48.5	595	4	US-09-370-838-187
26	64	48.5	1958	1	US-07-945-283-2
27	62.5	47.3	172	4	US-09-134-000C-5565

28 62 47.0 185 4 US-09-489-039A-8929 Sequence 8929, Ap
29 62 47.0 646 4 US-09-328-352-6017 Sequence 6017, Ap
30 61.5 46.6 182 4 US-09-489-039A-8301 Sequence 8301, Ap
31 61.5 46.6 656 2 US-08-343-433B-2 Sequence 2, Appli
32 61.5 46.6 656 3 US-09-214-584A-4 Sequence 4, Appli
33 61 46.2 187 4 US-09-634-238-414 Sequence 414, App
34 61 46.2 937 4 US-09-252-991A-19446 Sequence 19446, A
35 60.5 45.8 160 4 US-09-543-681A-8310 Sequence 8310, Ap
36 60.5 45.8 193 2 US-08-861-549-4 Sequence 4, Appli
37 60.5 45.8 205 2 US-08-861-549-3 Sequence 3, Appli
38 60.5 45.8 205 2 US-08-492-027A-8 Sequence 8, Appli
39 60.5 45.8 546 2 US-08-152-488-1 Sequence 1, Appli
40 60 45.5 29 1 US-08-303-025-1 Sequence 1, Appli
41 60 45.5 29 1 US-08-677-304-1 Sequence 1, Appli
42 60 45.5 29 2 US-08-436-703B-6 Sequence 6, Appli
43 60 45.5 647 2 US-08-770-761A-8 Sequence 8, Appli
44 60 45.5 705 2 US-08-770-761A-7 Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-09-249-585A-3
; Sequence 3, Application US/09249585A
; Patent No. 6417002
; GENERAL INFORMATION:
; APPLICANT: Horlick, Robert
; TITLE OF INVENTION: METHOD FOR MAINTENANCE AND SELECTION OF EPISODES
; FILE REFERENCE: 0867/02905
; CURRENT APPLICATION NUMBER: US/09/249,585A
; CURRENT FILING DATE: 1999-02-11
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein Barr Virus
US-09-249-585A-3

Query Match 65.9%; Score 87; DB 4; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.0042;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKKGKGGKGGKGGKGGKGGK 24
DB 328 GRGCGGCGRGGCGRGGCGG 351

RESULT 2
US-09-410-399-4
; Sequence 4, Application US/09410399
; Patent No. 6482587
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Cotter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/09/410,399
; CURRENT FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein-Barr virus
US-09-410-399-4

Query Match 65.9%; Score 87; DB 4; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.0042;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGK 24
|||:|||||:|||||:|||||
Db 328 GGRGGSGRGGSGRGGSGRGGSG 351

RESULT 3
US-08-152-488-4
; Sequence 4, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7MG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993

US-08-152-488-4
Query Match 60.6%; Score 80; DB 1; Length 29;
Best Local Similarity 65.2%; Pred. No. 0.0017;
Matches 15; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 2 RKKGKGGKGGKGGKGGKGGK 24
:|||||:|||||:|||||:|||||
Db 3 KKGKGGKGGKGGKGGKGGKGGG 25

RESULT 4
US-08-303-025-4
; Sequence 4, Application US/08303025

; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7MH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-303-025-4

Query Match 60.6%; Score 80; DB 1; Length 29;
Best Local Similarity 65.2%; Pred. No. 0.0017;
Matches 15; Conservative 3; Mismatches 5; Indels 0; Gaps 0;
QY 2 RKKGKGGKGGKGGKGGKGGK 24
:|||||:|||||:|||||:|||||
Db 3 KKGKGGKGGKGGKGGKGGKGGG 25

RESULT 5
US-08-677-304-4
; Sequence 4, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13

Query Match 60.6%; Score 80; DB 2; Length 29;
Best Local Similarity 65.2%; Pred. No. 0.0017;
Matches 15; Conservative 3; Mismatches 5; Indels

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Query Match      60.6%; Score
Best Local Similarity 65.2%; Pred.
Matches 15; Conservative 3; Mis
Qy      2 RKKGKGRKKGKGRKKGK 24
      : : : : : : : : : :
Db      3 KKGKGGKKGKGGKKGKGG 25

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RESULT 7
US-08-152-488-5
; Sequence 5, Application US/08152488

PATENT NO. 5534819
 GENERAL INFORMATION:
 INVENTOR: MacGillivray, Thomas W.
 APPLICANT: MacGillivray, Philip C.
 AGENT: Stanley, James C.
 TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
 TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
 TITLE OF INVENTION: ANTICOAGULATION REVERSAL
 NUMBER OF SEQUENCES: 13

TITLE OF INVENTION: LOW MOLECULAR WEIGHT HE
TITLE OF INVENTION: NO COAGULATION REVERSA
TITLE OF INVENTION: NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-Nov-1993
CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-5

Query Match 57.6%; Score 76; DB 1; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

QY 2 RKKGKGGKRGKGGK----GGRKKGGK 23
:||||:||||:||||:
Db 3 KKGKGGKGGKGGKGGKGGKGGKGGK 28

RESULT 8
US-08-303-025-5
Sequence 5, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS v.6.22
SOFTWARE: Wordperfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELECOMMUNICATION INFORMATION:

TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-5

Query Match 57.6%; Score 76; DB 1; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

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:||||:||||:||||:
Db 3 KKGKGGKGGKGGKGGKGGKGGKGGK 28

RESULT 9
US-08-677-304-5
Sequence 5, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: No. 5721212 Relevant

MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-5

Query Match 57.6%; Score 76; DB 1; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

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Db 3 KKGKGGKGGKGGKGGKGGKGGKGGK 28

RESULT 10
US-08-436-703B-10
Sequence 10, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A

US-08-436-703B-10
Query Match 57.6%; Score 76; DB 2; Length 29;
Best Local Similarity 61.5%; Pred. No. 0.0049;
Matches 16; Conservative 3; Mismatches 3; Indels 4; Gaps 1;

QY 2 RKGGGGRKKGGK---GGRKKGGK 23
Db 3 KKGKGGKGGKGGKGGKGGKGGKGGK 28

RESULT 11
US-07-694-983-14
Sequence 14, Application US/07694983
Patent No. 5432260
GENERAL INFORMATION:
APPLICANT: Stahl, Philip D.
TITLE OF INVENTION: HIGH AFFINITY MANNOSE RECEPTOR
TITLE OF INVENTION: LIGANDS
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Irell & Manella
STREET: 545 Middlefield Road, Suite 200
CITY: Menlo Park
STATE: California
COUNTRY: USA
ZIP: 94025
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/694,983
FILING DATE: 19910503
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Murashige, Kate H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 9500-0039.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-327-7250
TELEFAX: 415-327-2951
TELEX: 706141
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: AMINO ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
NAME/KEY: Peptide
LOCATION: 1
OTHER INFORMATION: /label= Ac-
FEATURE:
NAME/KEY: Peptide
LOCATION: 29
OTHER INFORMATION: /label= -NH2
US-07-694-983-14

Query Match 56.8%; Score 75; DB 1; Length 29;
Best Local Similarity 73.9%; Pred. No. 0.0064;
Matches 17; Conservative 2; Mismatches 2; Indels 2; Gaps 2;

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Db 2 KGGKGGKGGKGGKGGKGGKGGK 24

RESULT 12
US-07-694-983-13
Sequence 13, Application US/07694983

; Patent No. 5432260
; GENERAL INFORMATION:
; APPLICANT: Stahl, Philip D.
; TITLE OF INVENTION: HIGH AFFINITY MANNOSE RECEPTOR
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESS: Irell & Manella
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: California
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/694,983
; FILING DATE: 19910503
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Muzashige, Kate H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 9500-0039.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-327-7250
; TELEFAX: 415-327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1
; OTHER INFORMATION: /label= Ac-
; NAME/KEY: Peptide
; LOCATION: 20
; OTHER INFORMATION: /label= -NH2
; US-07-694-983-13

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Best Local Similarity 81.0%; Pred. No. 0.006;
Matches 17; Conservative 0; Mismatches 0; Indels 4; Gaps 2;

Qy 4 KGGKGGKGGKGGKGGKGGK 24
Db 2 KGGKGG--KGGKGG--KGGK 18

RESULT 13
US-09-561-366B-12
; Sequence 12, Application US/09561366B
; Patent No. 6399067
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing Multiplication of HIV-1
; FILE REFERENCE: GGP3USA
; CURRENT APPLICATION NUMBER: US/09/561,366B
; CURRENT FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 12
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus type 1
; FEATURE:

; NAME/KEY: MOD RES
; LOCATION: (1)..(1)
; OTHER INFORMATION: Glu is attached to DnaK (HSP70)
; US-09-561-366B-12
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Best Local Similarity 52.9%; Pred. No. 0.06;
Matches 18; Conservative 0; Mismatches 6; Indels 10; Gaps 2;
Qy 1 GRKKGKGGK-----GRKKGKGGK-----GRKKGKGGK 24
Db 216 GRKSGSKGLGISYGRKSGSKGLGISYGRKSGSKG 249
RESULT 14
US-10-114-176-12
; Sequence 12, Application US/10114176
; Patent No. 6524582
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing Multiplication of HIV-1
; FILE REFERENCE: GGP3USA
; CURRENT APPLICATION NUMBER: US/10/114,176
; CURRENT FILING DATE: 2002-04-02
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 12
; LENGTH: 260
; TYPE: PRT
; ORGANISM: Human immunodeficiency virus type 1
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (1)..(1)
; OTHER INFORMATION: Glu is attached to DnaK (HSP70)
; US-10-114-176-12

Query Match 56.1%; Score 74; DB 4; Length 260;
Best Local Similarity 52.9%; Pred. No. 0.06;
Matches 18; Conservative 0; Mismatches 6; Indels 10; Gaps 2;

Qy 1 GRKKGKGGK-----GRKKGKGGK-----GRKKGKGGK 24
Db 216 GRKSGSKGLGISYGRKSGSKGLGISYGRKSGSKG 249

RESULT 15
US-08-488-7
; Sequence 7, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J, Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,654
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-152-488-7

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Query Match      51.5%  Score 68;  DB 1;  Length 29;
Best Local Similarity 61.5%  Pred. No. 0.042;
Matches 16;  Conservative 3;  Mismatches 1;  Indels 6;  Gaps 2;

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Db      3 KXKGGK--KKKGGKKKKGKKGK 26

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Search completed: August 17, 2004, 16:14:40
Job time : 12.9406 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-44

Perfect score: 132

Sequence: 1 GRKGGGGRKGGKGGKGGKGGK 24

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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- 2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
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- 13: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	87	65.9	641	12	US-10-225-838B-22
3	87	65.9	641	14	US-10-138-098-52
4	87	65.9	641	14	US-10-294-804-4
5	87	65.9	641	16	US-10-732-694-11
6	80	60.6	220	12	US-10-282-122A-47799
7	76.5	58.0	1683	14	US-10-017-161-1482
8	76.5	58.0	1683	15	US-10-292-798-1130
9	74	56.1	66	9	US-09-864-761-38038
10	74	56.1	230	12	US-10-425-114-56545
11	74	56.1	260	14	US-10-114-176-12
12	74	56.1	260	14	US-10-323-013-12
13	74	56.1	713	16	US-10-437-963-170425
14	72.5	54.9	49	14	US-10-029-386-30905
15	72.5	54.9	141	9	US-09-864-761-36181

16	72	54.5	253	12	US-10-424-599-244838	Sequence 244838, A
17	72	54.5	263	12	US-10-425-114-47632	Sequence 47632, A
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19	71	53.8	57	9	US-09-864-761-45915	Sequence 45915, A
20	70.5	53.4	310	12	US-10-425-114-71460	Sequence 71460, A
21	70	53.0	152	16	US-10-437-963-146126	Sequence 146126, A
22	70	53.0	307	12	US-10-424-599-160486	Sequence 160486, A
23	70	53.0	332	12	US-10-425-114-46836	Sequence 46836, A
24	70	53.0	837	16	US-10-437-963-146128	Sequence 146128, A
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27	69	52.3	99	16	US-10-437-963-128667	Sequence 128667, A
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29	68.5	51.9	296	12	US-10-425-114-51273	Sequence 51273, A
30	68.5	51.9	297	12	US-10-424-599-223983	Sequence 223983, A
31	68.5	51.9	521	12	US-10-425-114-70443	Sequence 70443, A
32	68	51.5	25	12	US-10-083-960-61	Sequence 61, Appl
33	68	51.5	114	16	US-10-437-963-197101	Sequence 197101, A
34	68	51.5	415	14	US-10-017-161-1840	Sequence 1840, Ap
35	68	51.5	415	15	US-10-292-798-1496	Sequence 1496, Ap
36	68	51.5	478	12	US-10-425-114-68775	Sequence 68775, A
37	67.5	51.1	106	12	US-10-424-599-232677	Sequence 232677, A
38	67.5	51.1	293	12	US-10-425-114-50577	Sequence 50577, A
39	67.5	51.1	324	12	US-10-425-114-38165	Sequence 38165, A
40	67.5	51.1	324	12	US-10-425-114-40430	Sequence 40430, A
41	67.5	51.1	572	16	US-10-437-963-162500	Sequence 162500, A
42	67	50.8	69	14	US-10-029-386-31052	Sequence 31052, A
43	67	50.8	165	12	US-10-424-599-160484	Sequence 160484, A
44	67	50.8	183	12	US-10-425-114-65929	Sequence 65929, A
45	67	50.8	184	12	US-10-425-114-46167	Sequence 46167, A

ALIGNMENTS

RESULT 1

US-10-667-004-16
; Sequence 16, Application US/10667004
; Publication No. US20040126820A1
; GENERAL INFORMATION:
; APPLICANT: INTEL CORPORATION
; APPLICANT: CHAN, Selena
; APPLICANT: SU, Xing
; APPLICANT: YAMAKAWA, Mineo
; TITLE OF INVENTION: CONTROLLED ALIGNMENT OF NANO-BARCODES ENCODING SPECIFIC INFORMATION
; TITLE OF INVENTION: SCANNING PROBE MICROSCOPY (SPM)
; FILE REFERENCE: INTEL1310-1 (PL4240X)
; CURRENT APPLICATION NUMBER: US/10/667,004
; CURRENT FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: US 10/251,152
; PRIOR FILING DATE: 2002-09-20
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 32
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
US-10-667-004-16
; OTHER INFORMATION: Synthetic peptide

Query Match 68.2%; Score 90; DB 16; Length 32;

Best Local Similarity 75.0%; Pred. No. 0.004; Mismatches 0; Indels 0; Gaps 0;

Matches 18; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGGGRKGGKGGKGGKGGK 24

Db 2 GKGGGGGGGGGGGGGGGGGGG 25

RESULT 2

US-10-225-838B-22
; Sequence 22, Application US/10225838B

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; Publication No. US20030211990A1
; GENERAL INFORMATION:
; APPLICANT: NeuronZ Ltd.
; APPLICANT: NeuronZ Biosciences, Inc.
; APPLICANT: Sieg, Frank
; APPLICANT: Hughes, Paul
; TITLE OF INVENTION: Neural Regeneration Peptides and Methods for Their Use In
; TITLE OF INVENTION: Treatment of Brain Damage
; FILE REFERENCE: NRNZ-1023US1
; CURRENT APPLICATION NUMBER: US/10/225,838B
; CURRENT FILING DATE: 2002-08-22
; PRIOR APPLICATION NUMBER: 60/314,952
; PRIOR FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 22
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein Barr Virus
US-10-225-838B-22

Query Match          65.9%; Score 87; DB 12; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 3
US-10-138-098-52
; Sequence 52, Application US/10138098
; Publication No. US20030129169A1
; GENERAL INFORMATION:
; APPLICANT: Krohn, Kai
; APPLICANT: Blazevic, Veena
; APPLICANT: Tahtinen, Marja
; APPLICANT: Ustav, Mart
; APPLICANT: Toots, Urve
; APPLICANT: Mannik, Andres
; APPLICANT: Ranki, Annamari
; APPLICANT: Sikut, Rein
; APPLICANT: Janikson, Kadri
; APPLICANT: Ustav, Ene
; TITLE OF INVENTION: No. US20030129169A1el expression vectors and uses thereof
; FILE REFERENCE: 11041-006-999
; CURRENT APPLICATION NUMBER: US/10/138,098
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: FI 20010922
; PRIOR FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 52
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Human herpesvirus 4
US-10-138-098-52

Query Match          65.9%; Score 87; DB 14; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 4
US-10-294-804-4
; Sequence 4, Application US/10294804
; Publication No. US20030133948A1
; GENERAL INFORMATION:
; APPLICANT: Robertson, Erle S.
; APPLICANT: Cotter, Murray A.
; TITLE OF INVENTION: Methods to Inhibit or Enhance the Binding of Viral DNA
; TITLE OF INVENTION: to Genomic Host DNA
; FILE REFERENCE: UM-03778
; CURRENT APPLICATION NUMBER: US/10/294,804
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: US/09/410,399
; PRIOR FILING DATE: 1999-10-01
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Epstein-Barr virus
US-10-294-804-4

Query Match          65.9%; Score 87; DB 14; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 5
US-10-732-694-11
; Sequence 11, Application US/10732694
; Publication No. US20040141995A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Rong-Fu
; APPLICANT: Voo, Kuishin
; TITLE OF INVENTION: MHC CLASS I-RESTRICTED AND MHC CLASS II-RESTRICTED EBNA1 PEPTIDES
; FILE REFERENCE: P02723US1
; CURRENT APPLICATION NUMBER: US/10/732,694
; CURRENT FILING DATE: 2003-12-10
; PRIOR APPLICATION NUMBER: US 60/432,319
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 11
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Virus
US-10-732-694-11

Query Match          65.9%; Score 87; DB 16; Length 641;
Best Local Similarity 62.5%; Pred. No. 0.1;
Matches 15; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 GRKGGKGGKGGKGGKGGKGGKGGK 24
DB 328 GRGGGGGGGGGGGGGGGGGGGGGG 351

RESULT 6
US-10-282-122A-47799
; Sequence 47799, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
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; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47799
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-10-282-122A-47799

Query Match          60.6%; Score 80; DB 12; Length 220;
Best Local Similarity 50.3%; Pred.No. 0.23; 5; Indels 0; Gaps
Matches 14; Conservative 4; Mismatches 0;

QY      2   RKKGKGGRRKKGGKGGRRKKGGK 24
         | : ||| : ||| ||||| :
DB      34   RRKSGEVGVQNGKKGEGKGGRG 56

RESULT 7
US-10-017-161-1482
; Sequence 1482, Application US/10017161
; Publication No. US20030143668A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAWA, YUTAKA
; APPLICANT: ASURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1482
; LENGTH: 1683
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (5)..(7)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (9)..(12)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
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; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (110)..(124)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (127)..(142)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (147)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (149)..(150)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (154)..(156)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (166)..(167)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (171)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (173)..(174)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (178)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (183)..(189)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (192)
; OTHER INFORMATION: Variable amino acid
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; NAME/KEY: MOD_RES
; LOCATION: (196)
; OTHER INFORMATION: Variable amino acid
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; LOCATION: (198)..(201)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
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; LOCATION: (203)..(204)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
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; LOCATION: (206)
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; FEATURE:
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; LOCATION: (235)..(236)
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; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (239)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (248)..(249)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (256)
; OTHER INFORMATION: Variable amino acid
; FEATURE:

Query Match          58.0%; Score 76.5; DB 14; Length 1683;
Best Local Similarity 46.2%; Pred. No. 3;
Matches 18; Conservative 4; Mismatches 2; Indels 15; Gaps 2;

QY 1 GRKKG-----GKGRKKGGKGG--RKKGKGG 24
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Db 265 GRKXXGXXGKGGKGGEGGKGGGGGKXKXKGGKGG 303

RESULT 8
US-10-292-798-1190
; Sequence 1190, Application US/10292798
; Publication No. US20030235833A1
; GENERAL INFORMATION:
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1190
; LENGTH: 1683
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (5)..(5)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (9)..(12)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
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; LOCATION: (16)..(19)
; OTHER INFORMATION: Variable amino acid
; FEATURE:
; NAME/KEY: MOD_RES
; LOCATION: (21)..(22)
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OTHER INFORMATION: Variable amino acid
FEATURE:
NAME/KEY: MOD RES
LOCATION: (24)..(26)
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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LOCATION: (38)..(39)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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LOCATION: (74)..(79)
OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
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OTHER INFORMATION: Variable amino acid
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LOCATION: (86)..(92)
OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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LOCATION: (106)..(106)
OTHER INFORMATION: Variable amino acid

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NAME/KEY: MOD RES
LOCATION: (108)..(108)
OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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NAME/KEY: MOD RES
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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OTHER INFORMATION: Variable amino acid
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LOCATION: (203)..(204)
OTHER INFORMATION: Variable amino acid
FEATURE:

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; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 38038
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL022323.7
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 7.3
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 7.2
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 7.8
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 7.1
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 9.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 9.6
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 9.6
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 8.4
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 8
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 8.2
US-09-864-761-38038

Query Match 56.1%; Score 74; DB 9; Length 66;
Best Local Similarity 62.5%; Pred. No. 0.35;
Matches 15; Conservative 3; Mismatches 4; Indels 2; Gaps 1;

QY 1 GRKKGKGRKKGGK--GGRKKGG 22
||:||||:|:|:|:|:|:|:|:|:|
DB 29 GGRGKGKGTGGREGGREGKGG 52

RESULT 10
US-10-425-114-56545
; Sequence 56545, Application US/i0425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53)13(B)
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 56545
; LENGTH: 230
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB9060-013-D7_F11.pap
US-10-425-114-56545

Query Match 56.1%; Score 74; DB 12; Length 230;
Best Local Similarity 47.8%; Pred. No. 1;
Matches 11; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY 1 GRKKGKGRKKGGKGGKGGKGGK 23
||:||||:|:|:|:|:|:|:|:|:|
DB 111 GRRGGEGRRRGEGEGSRGGE 133

RESULT 11
US-10-114-176-12
; Sequence 12, Application US/1014176
; Publication No. US2002019232A1
; GENERAL INFORMATION:

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RESULT 13
US-10-437-963-170425
; Sequence 170425, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

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RESULT 15
US-09-864-761-36181
; Sequence 36181, Application US/03964761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED
; TITLE OF INVENTION: GENE EXPRESSION ANAL
; FILE REFERENCE: Aemica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US/00/180,312

;; PRIOR FILING DATE: 2000-02-04
;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366
;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04
;; PRIOR APPLICATION NUMBER: US 60/236,359
;; PRIOR FILING DATE: 2000-09-27
;; PRIOR APPLICATION NUMBER: PCT/US01/00666
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00667
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00664
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00669
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00665
;; PRIOR FILING DATE: 2001-01-30
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;; PRIOR APPLICATION NUMBER: PCT/US01/00663
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00662
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00661
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: PCT/US01/00670
;; PRIOR FILING DATE: 2001-01-30
;; PRIOR APPLICATION NUMBER: US 60/234,687
;; PRIOR FILING DATE: 2000-09-21
;; PRIOR APPLICATION NUMBER: US 09/608,408
;; PRIOR FILING DATE: 2000-06-30
;; PRIOR APPLICATION NUMBER: US 09/774,203
;; PRIOR FILING DATE: 2001-01-29
;; NUMBER OF SEQ ID NOS: 49117
;; SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
;; SEQ ID NO 36181
;; LENGTH: 141
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; OTHER INFORMATION: MAP TO AL022333.1
;; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.4
;; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.5
;; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2
;; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.4
;; OTHER INFORMATION: EXPRESSED IN HEL100, SIGNAL = 3.3
;; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.3
;; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3
;; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 3.2
;; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.4
;; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9
US-09-864-761-36181

Query Match 54.9%; Score 72.5; DB 9; Length 141;
Best Local Similarity 58.3%; Pred. No. 0.96;
Matches 14; Conservative 5; Mismatches 4; Indels 1; Gaps 1;

Qy 2 RKKGKGGKKG-KGGRKGGKG 24
Db 10 RSRGKGGKGGKGGKGGKGGKGG 33

Search completed: August 17, 2004, 17:19:22
Job time : 38.8416 secs

Sequence 26, Appl
Sequence 769, App
Sequence 17582, A
Sequence 14, Appl
Sequence 84, Appl
Sequence 74, Appl
Sequence 58, Appl
Sequence 2, Appl
Sequence 30, Appl
Sequence 8, Appl
Sequence 104, Appl
Sequence 44, Appl
Sequence 42, Appl
Sequence 142, Appl
Sequence 50, Appl
Sequence 46, Appl
Sequence 60, Appl
Sequence 48, Appl

28 54 46.2 49 4 US-09-150-812-26
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30 54 46.2 188 4 US-09-252-991A-17582
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32 54 46.2 1022 4 US-07-757-022B-84
33 54 46.2 1038 4 US-07-757-022B-74
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36 54 46.2 1128 4 US-09-060-482-8
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39 54 46.2 1270 4 US-07-757-022B-42
40 54 46.2 1311 4 US-07-757-022B-142
41 54 46.2 1313 4 US-07-757-022B-50
42 54 46.2 1314 4 US-07-757-022B-46
43 54 46.2 1320 4 US-07-757-022B-60
44 54 46.2 1320 4 US-07-757-022B-48
45 54 46.2 1354 4 US-07-757-022B-48

ALIGNMENTS

RESULT 1
US-08-668-255-5
Sequence 5, Application US/08668255
Patent No. 5965143
GENERAL INFORMATION:
APPLICANT: FASEL, Nicolas Joseph
APPLICANT: GLASER, Theresa Ann
TITLE OF INVENTION: IMMUNITY TO TRYPAANOSOMATIDS SPECIES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/668,255
FILING DATE: June 20, 1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 96200665.6
FILING DATE: March 12, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Paul N. Kokulis
REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: 11422/224090
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-668-255-5

Query Match 59.8%; Score 70; DB 2; Length 105;
Best Local Similarity 71.4%; Pred. No. 0.011;
Matches 15; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 3 KKPAKAKKKPAKAKKKPAK 23
DB 50 KKPAKAKKKPAKAKKKPAK 70

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-49
Perfect score: 117
Sequence: 1 ARKKPAKAKKKPAKAKKKPAK 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
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2: /cgn2_6/prodata/2/iaa/5B_COMB.pep.*
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5: /cgn2_6/prodata/2/iaa/PCUTUS_COMB.pep.*
6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	70	59.8	105	2	US-08-668-255-5
2	68	58.1	96	2	US-08-668-255-7
3	63	53.8	61	1	US-08-346-849-17
4	63	53.8	61	2	US-08-293-284A-17
5	63	53.8	61	4	US-08-898-300-17
6	62	53.0	96	2	US-08-668-255-9
7	61	52.1	60	1	US-08-346-849-16
8	61	52.1	60	2	US-08-293-284A-16
9	61	52.1	60	4	US-08-898-300-16
10	59	50.4	208	4	US-09-252-991A-31172
11	59	50.4	214	3	US-09-041-889-27
12	59	50.4	214	4	US-09-417-264-27
13	59	50.4	223	3	US-09-095-855-201
14	59	50.4	223	4	US-09-205-426-201
15	57	48.7	316	4	US-09-252-991A-32957
16	57	48.7	472	4	US-09-252-991A-17011
17	56.5	48.3	269	4	US-09-408-020-6
18	56	47.9	218	3	US-09-041-889-4
19	56	47.9	218	3	US-08-837-058-4
20	56	47.9	218	4	US-09-417-264-4
21	56	47.9	407	4	US-09-252-991A-29581
22	55	47.0	60	2	US-08-769-211-2
23	54.5	46.6	212	3	US-09-041-889-1
24	54.5	46.6	212	3	US-08-837-058-1
25	54.5	46.6	212	4	US-09-417-264-1
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27	54	46.2	49	3	US-08-839-624-26

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RESULT 2
US-08-668-255-7
; Sequence 7, Application US/08668255
; Patent No. 5965143
; GENERAL INFORMATION:
; APPLICANT: FASEL, Nicolas Joseph
; APPLICANT: GLASER, Theresa Ann
; TITLE OF INVENTION: IMMUNITY TO TRYPAANOMATIDS SPECIES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Sutro
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/668,255
; FILING DATE: June 20, 1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 96200665.6
; FILING DATE: March 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul N. Kokulis
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: 11422/224090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 96 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-668-255-7

Query Match 59.1%; Score 68; DB 2; Length 96;
Best Local Similarity 66.7%; Pred.No. 0.018;
Matches 14; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 3 KKPAAKAKKPKAAKPKAK 23
DB 41 KKPAAKVAEPKPKVKKPK 61

RESULT 3
US-08-346-849-17
; Sequence 17, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.

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; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 61 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-346-849-17

Query Match 53.8%; Score 63; DB 1; Length 61;
Best Local Similarity 53.1%; Pred.No. 0.053;
Matches 17; Conservative 1; Mismatches 6; Indels 8; Gaps 1;

QY 1 ARKKPKAA-----RKPKAKAAKKPKAKA 24
DB 25 AAKPKKAAAVKKSPKKAKPKAAATKKAAS 56

RESULT 4
US-08-293-284A-17
; Sequence 17, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 84
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592

```


ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/346.849
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/973,326
FILING DATE: 28 DECEMBER 1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-346-849-16

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Query Match      52.1%; Score 61; DB 1; Length 60;
Best Local Similarity 59.1%; Pred.No. 0.095;
Matches 13; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY  3  KKPAAAKKPKAKAARKKPKA  24
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Db   30  KKPKKAAKAKKPKAKSPKKA  51
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1  APPLICATION NUMBER: 07/973,326
2  FILING DATE: 28-DEC-1992
3  ATTORNEY/AGENT INFORMATION:
4  NAME: Brook, David E.
5  REGISTRATION NUMBER: 22,592
6  REFERENCE/DOCKET NUMBER: MIT-6008A
7  TELECOMMUNICATION INFORMATION:
8  TELEPHONE: (617) 861-6240
9  TELEFAX: (617) 861-9540
10 INFORMATION FOR SEQ ID NO: 16:
11 SEQUENCE CHARACTERISTICS:
12 LENGTH: 60 amino acids
13 TYPE: amino acid
14 TOPOLOGY: linear
15 MOLECULE TYPE: protein
16 US-08-293-284A-16
17
18 Query Match 52.1%; Score 61; DB 2; Length 60;
19 Best Local Similarity 59.1%; Pred. No. 0.095;
20 Matches 13; Conservative 1; Mismatches 8; Indels 0; Gaps 0
21
22 QY 3 KKPAAKARKKPAKAKKPKA 24
23 ||| ||| ||| |||
24 Db 30 KKPAAKARKKPAKAKKPKA 51
25
26 RESULT 9
27 US-08-698-300-16
28 Sequence 16, Application US/08898300
29 Patent No. 6548630
30 GENERAL INFORMATION:
31 APPLICANT: Zhang, Shuguang
32 APPLICANT: Lockshin, Curtis
33 APPLICANT: Rich, Alexander
34 APPLICANT: Holmes, Todd
35 TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
36 TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
37 TITLE OF INVENTION: THEREFOR
38 NUMBER OF SEQUENCES: 64
39 CORRESPONDENCE ADDRESS:
40 ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
41 STREET: Two Militia Drive
42 CITY: Lexington
43 STATE: Massachusetts
44 COUNTRY: U.S.A.
45 ZIP: 02173-4799
46 COMPUTER READABLE FORM:
47 MEDIUM TYPE: Floppy disk
48 COMPUTER: IBM PC compatible
49 OPERATING SYSTEM: PC-DOS/MS-DOS
50 SOFTWARE: PatentIn Release #1.0, Version #1.25
51 CURRENT APPLICATION DATA:
52 APPLICATION NUMBER: US/08/898,300
53 FILING DATE: 22 July 1997
54 CLASSIFICATION: 514
55 PRIOR APPLICATION DATA:
56 PRIOR APPLICATION NUMBER: 08/346,849
57 FILING DATE: 30 NOVEMBER 1994
58 PRIOR APPLICATION DATA:
59 APPLICATION NUMBER: 07/973,326
60 FILING DATE: 28 DECEMBER 1992
61 ATTORNEY/AGENT INFORMATION:
62 NAME: Brook, David E.
63 REGISTRATION NUMBER: 22,592
64 REFERENCE/DOCKET NUMBER: MIT-6008FB
65 TELECOMMUNICATION INFORMATION:
66 TELEPHONE: (781) 861-6240
67 TELEFAX: (781) 861-9540
68 INFORMATION FOR SEQ ID NO: 16:
69 SEQUENCE CHARACTERISTICS:
70 LENGTH: 60 amino acids
71 TYPE: amino acid
72 TOPOLOGY: linear

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MOLECULE TYPE: protein
US-08-898-300-16
Query Match 52.1%; Score 61; DB 4; Length 60;
Best Local Similarity 59.1%; Pred. No. 0.095;
Matches 13; Conservative 1; Mismatches 8; Indels 0; Gaps 0;
QY 3 KKPKAARKKPKAKAARKPKAKA 24
DB 30 KKPKAARKKPKAKAARKPKAKA 51
RESULT 10
US-09-252-991A-31172
Sequence 31172, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 31172
LENGTH: 208
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-31172
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Best Local Similarity 58.3%; Pred. No. 0.59;
Matches 14; Conservative 1; Mismatches 9; Indels 0; Gaps 0;
QY 1 ARKPKAKAARKKPKAKAARKPKAKA 24
DB 153 ARTRPAKARRAGDATAWEGSPATA 176
RESULT 11
US-09-041-889-27
Sequence 27, Application US/09041889
Patent No. 6033864
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/937,058
FILING DATE: 11-APR-1997

ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27
Query Match 50.4%; Score 59; DB 3; Length 214;
Best Local Similarity 56.5%; Pred. No. 0.6;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;
QY 1 ARKPKAKAARKKPKAKAARKPKAK 23
DB 115 AKKAPAKKATKAARKKATKAPAR 137
RESULT 12
US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27
Query Match 50.4%; Score 59; DB 4; Length 214;
Best Local Similarity 56.5%; Pred. No. 0.6;
Matches 13; Conservative 2; Mismatches 8; Indels 0; Gaps 0;

Qy 1 ARKKPAKAARKKPAKAARKKPAK 23
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Dd 115 AKKAPAKKATKAACKAATKAPAR 137

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RESULT 13
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:

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STATE: WA
COUNTRY: USA
ZIP: 98121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0

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APPLYING NUMBER: US/09/095,855
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLYING NUMBER: 08/705,347
FILING DATE: 29-AUG-1996
APPLYING NUMBER: 08/873,970
FILING DATE: 12-JUN-1997
APPLYING NUMBER: 08/997,362
FILING DATE: 23-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Sleath, Janet
REGISTRATION NUMBER: 37,007
REFERENCE/DOCKET NUMBER: 11000.1002c3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-269-0565
TELEFAX: 206-269-0563
TELEX:

Query Match	50.48;	Score 59;	DB 4;	Length 2237;
Best Local Similarity	56.5%;	Pred. No. 0.63;		
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RESULT 15
US-09-252-991A-32957
; Sequence 32957, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES R
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUT
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,789
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 32957
; LENGTH: 316
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-32957

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      Best Local Similarity 63.6%; Pred. NO. 1.6;
      Matches 14; Conservative 0; Mismatches 8; Indels

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Job time : 11.9406 secs

GenCore version 5.1.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-49

Perfect score: 117

Sequence: 1 ARKKPAKAAKKPAKAAKKPAK 24

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Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	70	59.8	105	13	US-10-093-892-5
2	68	58.1	96	13	Sequence 5, Appli
3	64	54.7	212	12	Sequence 7, Appli
4	63	53.8	61	16	Sequence 61735, A
5	63	53.8	81	12	Sequence 17, Appl
6	62.5	53.4	101	12	Sequence 240100,
7	62.5	53.4	293	16	Sequence 270857,
8	62.5	53.4	947	12	Sequence 186290,
9	62	53.0	96	13	Sequence 63665, A
10	61	52.1	60	16	Sequence 9, Appli
11	61	52.1	210	12	Sequence 16, Appl
12	61	52.1	215	12	Sequence 71653, A
13	61	52.1	215	12	Sequence 53794, A
14	61	52.1	298	12	Sequence 61609, A
15	59.5	50.9	179	12	Sequence 56861, A
					Sequence 238898,

16 59.5 50.9 180 12 US-10-282-122A-61833 Sequence 61833, A
17 59 50.4 130 14 US-10-262-209-2 Sequence 2, Appli
18 59 50.4 130 16 US-10-240-430-5 Sequence 5, Appli
19 59 50.4 214 12 US-10-282-122A-62547 Sequence 62547, A
20 59 50.4 214 12 US-10-282-122A-64817 Sequence 64817, A
21 59 50.4 223 13 US-10-282-122A-64817 Sequence 27, Appl
22 59 50.4 223 13 US-10-051-643-201 Sequence 52, Appl
23 59 50.4 223 14 US-10-205-979-52 Sequence 8221, Ap
24 59 50.4 777 14 US-10-128-714-8221 Sequence 95, Appl
25 58 49.6 369 12 US-09-820-843A-95 Sequence 76514, A
26 58 49.6 369 12 US-10-282-122A-76514 Sequence 49119, A
27 58 49.6 989 12 US-10-282-122A-49119 Sequence 10047, A
28 57.5 49.1 917 14 US-10-156-761-10847 Sequence 68109, A
29 57 48.7 372 12 US-10-282-122A-68109 Sequence 10047, A
30 56.5 48.3 269 13 US-10-027-806-6 Sequence 6, Appli
31 56.5 48.3 269 13 US-10-034-623-6 Sequence 6, Appli
32 56.5 48.3 269 14 US-10-027-801-6 Sequence 6, Appli
33 56.5 48.3 269 14 US-10-029-120-6 Sequence 6, Appli
34 56 47.9 77 16 US-10-240-430-6 Sequence 4, Appli
35 56 47.9 218 14 US-10-229-567-4 Sequence 1, Appli
36 56 47.9 234 14 US-10-262-209-1 Sequence 2, Appli
37 56 47.9 234 16 US-10-240-430-2 Sequence 66237, A
38 56 47.9 347 12 US-10-282-122A-66237 Sequence 120, App
39 56 47.9 347 14 US-10-127-032-120 Sequence 53742, A
40 56 47.9 526 12 US-10-282-122A-53742 Sequence 248776, A
41 55.5 47.4 302 12 US-10-424-599-248776 Sequence 69337, A
42 55.5 47.4 318 12 US-10-282-122A-69337 Sequence 40848, A
43 55.5 47.4 340 12 US-10-425-114-40848 Sequence 40769, A
44 55 47.0 142 12 US-10-425-114-40769 Sequence 40847, A
45 55 47.0 142 12 US-10-425-114-40847

ALIGNMENTS

RESULT 1
US-10-093-892-5
; Sequence 5, Application US/10093892
; Publication No. US20020177697A1
; GENERAL INFORMATION:
; APPLICANT: FASEL, Nicolas Joseph
; GLASER, Theresa Ann
; TITLE OF INVENTION: IMMUNITY TO TRYPAANOMATIDS SPECIES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Sutro
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/093,892
; FILING DATE: 11-Mar-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/668,255
; FILING DATE: June 20, 1996
; APPLICATION NUMBER: EP 96200665.6
; FILING DATE: March 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul N. Kokulis
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: 11422/224090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 105 amino acids
TYPE: amino acid
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 5:
US-10-093-892-5

Query Match 59.8%; Score 70; DB 13; Length 105;
Best Local Similarity 71.4%; Pred. No. 0.091; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 6;

QY 3 KKPAAKARKKPAKAAARKKPAK 23
||||| ||||| |||||
DB 50 KKPAAKVVKPAKVVKKPAK 70

RESULT 2
US-10-093-892-7
Sequence 7, Application US/10093892
Publication No. US20020177697A1
GENERAL INFORMATION:
APPLICANT: FASEL, Nicolas Joseph
GLASER, Theresa Ann
TITLE OF INVENTION: IMMUNITY TO TRYPAOSOMATIDS SPECIES
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pillsbury Madison & Sutro
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20005-3918
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 in, 720 Kb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/093,892
FILING DATE: 11-Mar-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/668,255
FILING DATE: June 20, 1996
APPLICATION NUMBER: EP 96200665.6
FILING DATE: March 12, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Paul N. Kokulis
REGISTRATION NUMBER: 16,773
REFERENCE/DOCKET NUMBER: 11422/224090
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-861-3000
TELEFAX: 202-822-0944
TELEX: 6714627

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 96 amino acids
TYPE: amino acid
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-093-892-7

Query Match 58.1%; Score 68; DB 13; Length 96;
Best Local Similarity 66.7%; Pred. No. 0.15; Indels 0; Gaps 0;
Matches 14; Conservative 1; Mismatches 6;

QY 3 KKPAAKARKKPAKAAARKKPAK 23
||||| :||| |||||
DB 41 KKPAAKVAEKPAKVVKKPAK 61

RESULT 3

US-10-282-122A-61735
Sequence 61735, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 61735
LENGTH: 212
TYPE: PRT
ORGANISM: Mycobacterium avium
US-10-282-122A-61735

Query Match 54.7%; Score 64; DB 12; Length 212;
Best Local Similarity 63.0%; Pred. No. 1; Indels 4; Gaps 2;
Matches 17; Conservative 3; Mismatches 3;

QY 1 ARKKPAK--AARKKPAK--AARKKPAK 23
:|||||:|||||:|||||
DB 116 AKKAPAKKAAKAPAKKAAKAPAK 142

RESULT 4
US-10-390-472-17
Sequence 17, Application US/10390472
Publication No. US20040087013A1
GENERAL INFORMATION:
APPLICANT: Holmes, Todd
Zhang, Shuguang
Rich, Alexander
DiPersio, C. Michael
Lockshin, Curtis

TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
THEREFOR
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:

ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/390,472
FILING DATE: 17-Mar-2003
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/293,284
FILING DATE: 22-AUG-1994
APPLICATION NUMBER: 07/973,326
FILING DATE: 28-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 61 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-10-390-472-17

Query Match 53.8%; Score 63; DB 16; Length 61;
Best Local Similarity 53.1%; Pred. No. 0.41;
Matches 17; Conservative 1; Mismatches 6; Indels 8; Gaps 1;

QY 1 ARKKPAKAA-----RKPKAKAARKKPKA 24
DB 25 AAKKPKKAAAVKSPKKAKPKAAATKKAAS 56

RESULT 5
US-10-424-599-240100
; Sequence 240100, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 240100
; LENGTH: 81
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_58838C.1.pep
US-10-424-599-240100

Query Match 53.8%; Score 63; DB 12; Length 81;
Best Local Similarity 44.4%; Pred. No. 0.54;
Matches 16; Conservative 3; Mismatches 3; Indels 14; Gaps 1;

QY 3 KKPAAKPKA-----AAKPKA 24

DB 37 EKPAKAAEKPAKPAAPATEKPAKAAKAPAKA 72

RESULT 6
US-10-424-599-270857
; Sequence 270857, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 270857
; LENGTH: 101
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_86602C.1.pep
US-10-424-599-270857

Query Match 53.4%; Score 62.5; DB 12; Length 101;
Best Local Similarity 69.6%; Pred. No. 0.78;
Matches 16; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

QY 1 ARKKPAKA-ARKKPAKAAARKKPA 22
DB 12 ASKAPAKAPASKAPAKAPAKKPA 34

RESULT 7
US-10-437-963-186290
; Sequence 186290, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 186290
; LENGTH: 293
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_83103C.1.pep
US-10-437-963-186290

Query Match 53.4%; Score 62.5; DB 16; Length 293;
Best Local Similarity 41.7%; Pred. No. 2.2;
Matches 15; Conservative 4; Mismatches 2; Indels 15; Gaps 1;

QY 3 KKPAAKAR-----KKPKAARKKPAK 23
DB 236 RRPAAKATSAXDTPSKAAAPAAKPAKAAKAPAK 271

RESULT 8

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US-10-282-122A-63665
; Sequence 63665, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63665
; LENGTH: 947
; TYPE: PR1
; ORGANISM: Mycobacterium leprae
US-10-282-122A-63665

Query Match 53.4%; Score 62.5; DB 12; Length 947;
Best Local Similarity 68.2%; Pred. No. 6.7;
Matches 15; Conservative 2; Mismatches 4; Indels 1; Gaps 1;

Qy 3 KKPAAKAKKPA-KAARKKPAK 23
|:|||||:|||||:|
Db 919 KRPAAKAKKVPAAKAAKLAAPAR 940

RESULT 9
US-10-093-892-9
; Sequence 9, Application US/10093892
; Publication No. US20020177697A1
; GENERAL INFORMATION:
; APPLICANT: FASEL, Nicolas Joseph
; APPLICANT: GLASER, Theresa Ann
; TITLE OF INVENTION: IMMUNITY TO TRYPAOSOMATIDS SPECIES
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pillsbury Madison & Sutro
; STREET: 1100 New York Avenue, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA

US-10-093-892-9
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994

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; ZIP: 20005-3918
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 in, 720 KB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/093,892
; FILING DATE: 11-Mar-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/668,255
; FILING DATE: June 20, 1996
; APPLICATION NUMBER: EP 96200665.6
; FILING DATE: March 12, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul N. Kokulis
; REGISTRATION NUMBER: 16,773
; REFERENCE/DOCKET NUMBER: 11422/224090
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-861-3000
; TELEFAX: 202-822-0944
; TELEX: 6714627
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 96 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
US-10-093-892-9

Query Match 53.0%; Score 62; DB 13; Length 96;
Best Local Similarity 61.9%; Pred. No. 0.86;
Matches 13; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

Qy 3 KKPAAKAKKPAKAAKAKKPAK 23
|:|||||:|||||:|
Db 41 KKPAAKVAEKPAKVVAKPAK 61

RESULT 10
US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994

```

APPLICATION NUMBER: 07/973,326
FILING DATE: 28-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: MIT-6008A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match 52.1%; Score 61; DB 16; Length 60;
Best Local Similarity 59.1%; Pred. No. 0.73;
Matches 13; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 3 KPAKAARKKPKAARKKPKA 24
DB 30 KPAKAARKKPKAARKKPKA 51

RESULT 11
US-10-425-114-71653
; Sequence 71653, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 71653
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3067-008-F3_FLI.pep
US-10-425-114-71653

Query Match 52.1%; Score 61; DB 12; Length 210;
Best Local Similarity 66.7%; Pred. No. 2.4;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 KPAKAARKKPKAARKKPKA 24
DB 144 KPAKAARKKPKAARKKPKA 164

RESULT 12
US-10-425-114-53794
; Sequence 53794, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(5313)B
CURRENT APPLICATION NUMBER: US/10/425,114
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 73128
SEQ ID NO 53794
LENGTH: 215
TYPE: PRT
ORGANISM: Zea mays
FEATURE:
OTHER INFORMATION: Clone ID: UC-ZMFLB73178A11_FLI.pep
US-10-425-114-53794

Query Match 52.1%; Score 61; DB 12; Length 215;
Best Local Similarity 66.7%; Pred. No. 2.5;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 KPAKAARKKPKAARKKPKA 24
DB 149 KPAKAARKKPKAARKKPKA 169

RESULT 13
US-10-425-114-61609
; Sequence 61609, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 61609
; LENGTH: 215
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3078-003-F7_FLI.pep
US-10-425-114-61609

Query Match 52.1%; Score 61; DB 12; Length 215;
Best Local Similarity 66.7%; Pred. No. 2.5;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 KPAKAARKKPKAARKKPKA 24
DB 149 KPAKAARKKPKAARKKPKA 169

RESULT 14
US-10-425-114-56061
; Sequence 56061, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E.
; APPLICANT: Tabaska, Jack E.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(5313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128

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; SEQ ID NO 56061
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROB73006D02_FLI.pep
US-10-425-114-56061
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Query Match          52.1%; Score 61; DB 12; Length 298;
Best Local Similarity 44.1%; Pred. No. 3.4;
Matches 15; Conservative 3; Mismatches 2; Indels 14; Gaps 1;
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QY 4 KPAKAAR-----KKPAKAARKKPAK 23
Db 243 RPAKAATSAKDTGKGAAPAKPAKAAAKKAPAK 276
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RESULT 15
US-10-424-599-238898
; Sequence 238898, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 238898
; LENGTH: 179
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MBT3847_5774C.1.pep
US-10-424-599-238898
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Query Match          50.9%; Score 59.5; DB 12; Length 179;
Best Local Similarity 62.5%; Pred. No. 3.2;
Matches 15; Conservative 2; Mismatches 6; Indels 1; Gaps 1;
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QY 2 RKKPAKAARKK-PAKAARKKPAK 24
Db 131 KAKPAKAAPKKVGAKPAKTPVKA 154
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Search completed: August 17, 2004, 17:19:23
Job time : 38.8416 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-51
Perfect score: 108
Sequence: 1 AKKARAARKARAARKARA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/2/iaa/PTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	76	70.4	223	3	US-09-095-855-201
2	76	70.4	223	4	US-09-205-426-201
3	63	58.3	469	4	US-09-489-039A-13565
4	60.5	56.0	28	1	US-08-303-025-12
5	60.5	56.0	28	2	US-08-436-703B-1
6	60.5	56.0	32	1	US-08-152-488-13
7	60.5	56.0	32	1	US-08-303-025-15
8	60.5	56.0	32	1	US-08-677-304-13
9	60.5	56.0	32	2	US-08-436-703B-2
10	60.5	56.0	33	1	US-08-303-025-16
11	60.5	56.0	33	2	US-08-436-703B-4
12	60.5	56.0	218	3	US-09-041-889-4
13	60.5	56.0	218	3	US-08-837-058-4
14	60.5	56.0	218	4	US-09-417-264-4
15	60.5	56.0	1507	3	US-08-929-329-5
16	60	55.6	29	1	US-08-152-488-12
17	60	55.6	29	1	US-08-303-025-14
18	60	55.6	29	2	US-08-677-304-12
19	60	55.6	29	2	US-08-436-703B-16
20	60	55.6	109	4	US-09-405-743A-7
21	57	52.8	60	1	US-08-346-849-16
22	57	52.8	60	2	US-08-293-284A-16
23	57	52.8	60	4	US-08-898-300-16
24	57	52.8	181	4	US-09-252-931A-23085
25	56.5	52.3	26	2	US-08-894-339-6
26	56.5	52.3	26	3	US-09-306-044-6
27	55.5	51.4	77	4	US-09-405-743A-5

28	55.5	51.4	86	4	US-09-405-743A-6	Sequence 6, Appli
29	55	50.9	407	4	US-09-252-931A-29581	Sequence 29581, A
30	55	50.9	756	4	US-09-963-137-184	Sequence 184, App
31	54.5	50.5	29	1	US-08-152-488-10	Sequence 10, Appl
32	54.5	50.5	29	1	US-08-152-488-11	Sequence 11, Appl
33	54.5	50.5	29	1	US-08-303-025-10	Sequence 10, Appl
34	54.5	50.5	29	1	US-08-303-025-11	Sequence 11, Appl
35	54.5	50.5	29	1	US-08-303-025-13	Sequence 13, Appl
36	54.5	50.5	29	1	US-08-677-304-11	Sequence 10, Appl
37	54.5	50.5	29	1	US-08-677-304-11	Sequence 11, Appl
38	54.5	50.5	29	2	US-08-436-703B-3	Sequence 3, Appli
39	54.5	50.5	29	2	US-08-436-703B-15	Sequence 15, Appl
40	54.5	50.5	66	4	US-09-405-743A-4	Sequence 4, Appli
41	54	50.0	24	3	US-08-993-008A-4	Sequence 4, Appli
42	54	50.0	29	1	US-08-152-488-3	Sequence 3, Appli
43	54	50.0	29	1	US-08-303-025-3	Sequence 3, Appli
44	54	50.0	29	1	US-08-677-304-3	Sequence 3, Appli
45	54	50.0	29	2	US-08-436-703B-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESS: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DSC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Protein

APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J, Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"

COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B

FILING DATE: 08-MAY-1995

CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A

FILING DATE: N/A

ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.

REGISTRATION NUMBER: 28,664

REFERENCE/DOCKET NUMBER: 7WK-060548-00233

TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976

TELEFAX: 313-965-1951

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS: N/A

TOPOLOGY: N/A

MOLECULE TYPE: peptide

ORIGINAL SOURCE:
ORGANISM: N/A

AUTHORS: N/A

TITLE: N/A

US-08-436-703B-1

Query Match 56.0%; Score 60.5; DB 2; Length 28;
Best Local Similarity 73.1%; Pred. No. 0.088;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
DB 2 AKKAKAAKKAKAAKKAKAAKKAK 27

RESULT 6

US-08-152-488-13

Sequence 13, Application US/08152488

Patent No. 5534619

GENERAL INFORMATION:

APPLICANT: Wakefield, Thomas W.

APPLICANT: Andrews, Philip C.

APPLICANT: Stanley, James C.

TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND

TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN

TITLE OF INVENTION: ANTICOAGULATION REVERSAL

NUMBER OF SEQUENCES: 13

CORRESPONDENCE ADDRESS:

ADDRESSEE: Benita J, Rohm, Esq.

STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488

FILING DATE: 12-NOV-1993

CLASSIFICATION: 514

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/08069

FILING DATE: 14-AUG-1993

ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.

REGISTRATION NUMBER: 28,664

REFERENCE/DOCKET NUMBER: RM-7WG

TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344

TELEFAX: 908-276-5543

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids

TYPE: amino acid

STRANDEDNESS: N/A

TOPOLOGY: N/A

MOLECULE TYPE: peptide

ORIGINAL SOURCE:
ORGANISM: N/A

AUTHORS: N/A

TITLE: N/A

PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069

FILING DATE: 14-AUG-1993

US-08-152-488-13

Query Match 56.0%; Score 60.5; DB 1; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23

DB 6 AKKAKAAKKAKAAKKAKAAKKAK 31

RESULT 7

US-08-303-025-15

Sequence 15, Application US/08303025

Patent No. 5614494

GENERAL INFORMATION:

APPLICANT: Wakefield, Thomas W.

APPLICANT: Andrews, Philip C.

APPLICANT: Stanley, James C.

TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND

TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN

TITLE OF INVENTION: ANTICOAGULATION REVERSAL

NUMBER OF SEQUENCES: 16

CORRESPONDENCE ADDRESS:

ADDRESSEE: Benita J, Rohm, Esq.

STREET: 150 West Jefferson, Suite 2500

CITY: Detroit

STATE: Michigan

COUNTRY: United States of America

ZIP: 48226-4415

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb

COMPUTER: IBM PC compatible

OPERATING SYSTEM: MS-DOS v.6.22

SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-15

Query Match 56.0%; Score 60.5; DB 1; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
Db 6 AKKAKAARAKKAARAKKAARAKKAK 31

RESULT 8
US-08-677-304-13
Sequence 13, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069

FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-13

Query Match 56.0%; Score 60.5; DB 1; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
Db 6 AKKAKAARAKKAARAKKAARAKKAK 31

RESULT 9
US-08-436-703B-2
Sequence 2, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:

TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-2

Query Match 56.0%; Score 60.5; DB 2; Length 32;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 0; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
Db 6 AKKAKKAAKKAKKAAKKAKKA 31

RESULT 10
US-08-303-025-16
Sequence 16, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS V.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 7WK-060548-00231
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A

PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-16

Query Match 56.0%; Score 60.5; DB 1; Length 33;
Best Local Similarity 73.1%; Pred. No. 0.1;
Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKAR 23
Db 7 AKKAKKAAKKAKKAAKKAKKA 32

RESULT 11
US-08-436-703B-4
Sequence 4, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
SUITE: Suite 1525
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-4

Query Match 56.0%; Score 60.5; DB 2; Length 33;
Best Local Similarity 73.1%; Pred. No. 0.1;

Matches 19; Conservative 4; Mismatches 0; Indels 3; Gaps 3;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKA 23
 ||||:||||:||||:||||:
 Db 7 AKKA-RAAKKA-RAAKKA-RAAKKA 32

RESULT 12

US-09-041-889-4
 ; Sequence 4, Application US/09041889
 ; Patent No. 6033864
 ; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Cohavy, Offer
 ; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; TITLE OF INVENTION: Microbial UC PANCA antigens
 ; NUMBER OF SEQUENCES: 41
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/041.889
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/837,058
 ; FILING DATE: 11-APR-1997
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-PM 3006
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-8949
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 218 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; FEATURE:
 ; NAME/KEY: Peptide
 ; LOCATION: 1..218
 ; OTHER INFORMATION: /note= "product = Human Histone"
 ; US-09-041-889-4

Query Match 56.0%; Score 60.5; DB 3; Length 218;
 Best Local Similarity 55.6%; Pred. No. 0.55;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKA 24
 ||||:||||:||||:||||:
 Db 166 AKKA-RAAKKA-RAAKKA-RAAKKA 192

RESULT 13

US-08-837-058-4
 ; Sequence 4, Application US/08837058
 ; Patent No. 6074835
 ; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Targan, Stephan R.
 ; APPLICANT: Eggena, Mark

; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; TITLE OF INVENTION: Histone H1
 ; NUMBER OF SEQUENCES: 26
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/837,058
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Campbell, Cathryn A.
 ; REGISTRATION NUMBER: 31,815
 ; REFERENCE/DOCKET NUMBER: P-PM 2438
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (619) 535-9001
 ; TELEFAX: (619) 535-8949
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 218 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; FEATURE:
 ; NAME/KEY: Peptide
 ; LOCATION: 1..218
 ; OTHER INFORMATION: /note= "product = Human Histone"
 ; US-08-837-058-4

Query Match 56.0%; Score 60.5; DB 3; Length 218;
 Best Local Similarity 55.6%; Pred. No. 0.55;
 Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKA-RAAKKA-RAAKKA-RAAKKA 24
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 Db 166 AKKA-RAAKKA-RAAKKA-RAAKKA 192

RESULT 14

US-09-417-264-4
 ; Sequence 4, Application US/09417264
 ; Patent No. 6537768
 ; GENERAL INFORMATION:
 ; APPLICANT: Braun, Jonathan
 ; APPLICANT: Cohavy, Offer
 ; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; TITLE OF INVENTION: Microbial UC PANCA antigens
 ; NUMBER OF SEQUENCES: 41
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Campbell & Flores LLP
 ; STREET: 4370 La Jolla Village Drive, Suite 700
 ; CITY: San Diego
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 92122
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/417,264

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-51

Perfect score: 108

Sequence: 1 AKKARAARAKKARAKKARA 24

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB. pep.*
- 12: /cgn2_6/prodata/1/pubpaa/US09_NEW PUB. pep.*
- 13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB. pep.*
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- 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB. pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	76	70.4	223	13	US-10-051-643-201
2	76	70.4	223	14	US-10-205-979-52
3	64	59.3	243	9	US-09-771-161A-127
4	62.5	57.9	428	12	US-10-282-122A-55748
5	60.5	56.0	55	16	US-10-240-430-8
6	60.5	56.0	66	16	US-10-240-430-7
7	60.5	56.0	130	14	US-10-262-209-2
8	60.5	56.0	130	16	US-10-240-430-5
9	60.5	56.0	218	14	US-10-229-567-4
10	60.5	56.0	234	14	US-10-262-209-1
11	60.5	56.0	234	16	US-10-240-430-2
12	60	55.6	109	9	US-09-816-989A-7
13	59	54.6	372	12	US-10-282-122A-68109
14	58	53.7	293	16	US-10-437-963-186290
15	57.5	53.2	272	14	US-10-156-761-12370

16	57	52.8	26	9	US-09-888-721-2	Sequence 2, Appli
17	57	52.8	26	9	US-09-888-721-32	Sequence 32, Appl
18	57	52.8	60	16	US-10-390-472-16	Sequence 16, Appl
19	57	52.8	323	12	US-10-282-122A-59321	Sequence 59321, A
20	57	52.8	373	16	US-10-437-963-125161	Sequence 125161, A
21	56	51.9	347	12	US-10-282-122A-66237	Sequence 66237, A
22	56	51.9	347	14	US-10-127-032-120	Sequence 120, App
23	55.5	51.4	77	9	US-09-816-989A-5	Sequence 5, Appli
24	55.5	51.4	86	9	US-09-816-989A-6	Sequence 6, Appli
25	55.5	51.4	838	14	US-10-156-761-10342	Sequence 10342, A
26	55	50.9	72	12	US-10-424-599-174862	Sequence 174862, A
27	55	50.9	298	12	US-10-425-114-56061	Sequence 56061, A
28	55	50.9	344	15	US-10-369-493-1440	Sequence 1440, App
29	55	50.9	373	12	US-10-424-599-144844	Sequence 144844, A
30	55	50.9	756	12	US-09-963-131-184	Sequence 184, App
31	55	50.9	788	14	US-10-156-761-11306	Sequence 11306, A
32	54.5	50.5	66	9	US-09-816-989A-4	Sequence 4, Appli
33	54.5	50.5	421	12	US-10-282-122A-56483	Sequence 56483, A
34	54	50.0	336	12	US-10-282-122A-69962	Sequence 69962, A
35	54	50.0	539	15	US-10-369-493-17058	Sequence 17058, A
36	54	50.0	1168	15	US-10-369-493-3980	Sequence 3980, App
37	53.5	49.5	56	9	US-09-816-989A-3	Sequence 3, Appli
38	53.5	49.5	214	12	US-10-282-122A-62547	Sequence 62547, A
39	53.5	49.5	214	12	US-10-282-122A-64817	Sequence 64817, A
40	53.5	49.5	214	14	US-10-229-567-27	Sequence 27, Appl
41	53	49.1	137	12	US-10-424-599-159975	Sequence 159975, A
42	53	49.1	137	12	US-10-424-599-159976	Sequence 159976, A
43	53	49.1	137	12	US-10-424-599-241375	Sequence 241375, A
44	53	49.1	137	12	US-10-424-599-241400	Sequence 241400, A
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ALIGNMENTS

RESULT 1

US-10-051-643-201
; Sequence 201, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
; FILE REFERENCE: 11000.1008c2
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-051-643-201

Query Match 70.4%; Score 76; DB 13; Length 223;
Best Local Similarity 81.8%; Pred. No. 0.014;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 AKKARAARAKKARAKKARA 22
Db 147 AKKATAAKKAAPAKKATAAKKA 168

RESULT 2

US-10-205-979-52
; Sequence 52, Application US/10205979
; Publication No. US20030147861A1

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; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Abnerthy, Nevin
; TITLE OF INVENTION: Compounds and Methods for the Modulation
; TITLE OF INVENTION: of Immune Responses
; FILE REFERENCE: 11000.1063U
; CURRENT APPLICATION NUMBER: US/10/205,979
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/308,446
; PRIOR FILING DATE: 2001-07-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-205-979-52

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Query Match          70.4%; Score 76; DB 14; Length 223;
Best Local Similarity 81.8%; Pred. No. 0.014;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY      1 AKKAAKAKAAKAAKAAKAA 22
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DB      147 AKKAAKAAKAAKAAKAAKAA 168

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RESULT 3
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

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Query Match          59.3%; Score 64; DB 9; Length 243;
Best Local Similarity 60.9%; Pred. No. 0.53;
Matches 14; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

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QY      2 KKAAKAAKAAKAAKAAKAA 24
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DB      9 KKAAKAAKAAKAAKAAKAA 31

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RESULT 4
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel

```

```

; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

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Query Match          57.9%; Score 62.5; DB 12; Length 428;
Best Local Similarity 70.8%; Pred. No. 1.4;
Matches 17; Conservative 3; Mismatches 3; Indels 1; Gaps 1;

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QY      1 AKKAAKAAKAAKAAKAAKAA 24
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DB      231 AKKAAKAAKAAKAAKAAKAA 253

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RESULT 5
US-10-240-430-8
; Sequence 8, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegbir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJS-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-8

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Query Match          56.0%; Score 60.5; DB 16; Length 55;

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Best Local Similarity 55.6%; Pred. No. 0.35;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAAKKAAKAAKAAK---KARA 24
||||:||||:||||:||||:||||:
Db 12 AKKAKSPKAAKAAKPKKAPKSPAKAKA 38

RESULT 6
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; CURRENT APPLICATION NUMBER: US/10/240,430
; FILE REFERENCE: GJE-6402
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 7
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-240-430-7
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Best Local Similarity 55.6%; Pred. No. 0.42;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAAKKAAKAAKAAK---KARA 24
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Db 12 AKKAKSPKAAKAAKPKKAPKSPAKAKA 38

RESULT 7
US-10-262-209-2
; Sequence 2, Application US/10262209
; Publication No. US20030125239A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262,209
; PRIOR FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: UK 0218324.2
; PRIOR FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 2
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens

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Best Local Similarity 55.6%; Pred. No. 0.81;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAAKKAAKAAKAAK---KARA 24
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Db 76 AKKAKSPKAAKAAKPKKAPKSPAKAKA 102

RESULT 8
US-10-240-430-5
; Sequence 5, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 5
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens

US-10-240-430-5
Query Match 56.0%; Score 60.5; DB 16; Length 130;
Best Local Similarity 55.6%; Pred. No. 0.81;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAAKKAAKAAKAAK---KARA 24
||||:||||:||||:||||:||||:
Db 76 AKKAKSPKAAKAAKPKKAPKSPAKAKA 102

RESULT 9
US-10-229-567-4
; Sequence 4, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Uterine Cervicitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/229,567
; FILING DATE: 27-Aug-2002
; CLASSIFICATION: <unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE: <unknown>
; APPLICATION NUMBER: US 09/041,889
; FILING DATE: <unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 218 amino acids
TYPE: amino acid
TOPOLOGY: linear
FEATURE:
NAME/KEY: Peptide
LOCATION: 1..218
OTHER INFORMATION: /note= "product = Human Histone
H1-S-4"
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-10-229-567-4

Query Match 56.0%; Score 60.5; DB 14; Length 218;
Best Local Similarity 55.6%; Pred. No. 1.3;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KARA 24
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Db 166 AKKAKSPKAAKAAKPKKAPKSPAKAKA 192

RESULT 10

US-10-262-209-1
Sequence 1, Application US/10262209
Publication No. US2003012529A1
GENERAL INFORMATION:
APPLICANT: Crisanti, Andrea
APPLICANT: Essegir, Selma
TITLE OF INVENTION: Compositions for Drug Delivery
FILE REFERENCE: GUE-6703
CURRENT APPLICATION NUMBER: US/10/262,209
CURRENT FILING DATE: 2002-09-30
PRIOR APPLICATION NUMBER: UK 0218324.2
PRIOR FILING DATE: 2002-08-07
PRIOR APPLICATION NUMBER: PCT/GB01/01699
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: UK 0102667.3
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: UK 0009080.3
PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 234
TYPE: PRT
ORGANISM: Homo sapiens
US-10-262-209-1

Query Match 56.0%; Score 60.5; DB 14; Length 234;
Best Local Similarity 55.6%; Pred. No. 1.4;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KARA 24
||||: |||: |||: |||: |||: |||:
Db 167 AKKAKSPKAAKAAKPKKAPKSPAKAKA 193

RESULT 11

US-10-240-430-2
Sequence 2, Application US/10240430
Publication No. US20040110928A1
GENERAL INFORMATION:
APPLICANT: Crisanti, Andrea
APPLICANT: Essegir, Selma
TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
FILE REFERENCE: GUE-6402
CURRENT APPLICATION NUMBER: US/10/240,430

CURRENT FILING DATE: 2003-04-15
PRIOR APPLICATION NUMBER: PCT/GB01/01697
PRIOR FILING DATE: 2001-04-12
PRIOR APPLICATION NUMBER: UK 0102667.3
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: UK 0009080.3
PRIOR FILING DATE: 2000-04-12
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 234
TYPE: PRT
ORGANISM: Homo sapiens
US-10-240-430-2

Query Match 56.0%; Score 60.5; DB 16; Length 234;
Best Local Similarity 55.6%; Pred. No. 1.4;
Matches 15; Conservative 5; Mismatches 4; Indels 3; Gaps 1;

QY 1 AKKAAKAKKAAKAAKAAK---KARA 24
||||: |||: |||: |||: |||: |||:
Db 167 AKKAKSPKAAKAAKPKKAPKSPAKAKA 193

RESULT 12

US-09-816-989A-7
Sequence 7, Application US/09816989A
Patent No. US20020115103A1
GENERAL INFORMATION:
APPLICANT: Gad, Alexander
APPLICANT: Lis, Doris
TITLE OF INVENTION: COPOLYMER 1 RELATED POLYPEPTIDES FOR USE AS MOLECULAR WEIGHT MARKER
FILE REFERENCE: 2609/60807-A-PCT-US
CURRENT APPLICATION NUMBER: US/09/816,989A
CURRENT FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: 60/101,693
PRIOR FILING DATE: 1998-09-25
PRIOR APPLICATION NUMBER: PCT/US99/22402
PRIOR FILING DATE: 1999-09-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.1
SEQ ID NO 7
LENGTH: 109
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide
US-09-816-989A-7

Query Match 55.6%; Score 60; DB 9; Length 109;
Best Local Similarity 60.9%; Pred. No. 0.79;
Matches 14; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 KKAAKAAKAAKAAKAAKAAKARA 24
||||: |||: |||: |||: |||: |||:
Db 22 KKAYAKKEAKAYKAAEAKKKAKA 44

RESULT 13

US-10-282-122A-68109
Sequence 68109, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant

; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 68109
 ; LENGTH: 372
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas putida
 US-10-282-122A-68109

Query Match 54.6%; Score 59; DB 12; Length 372;
 Best Local Similarity 68.2%; Pred. No. 3.5;
 Matches 15; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 AKKAAKAAKAAKAAKAAKAAKAA 22
 Db 130 AAKAAEAKKAAEAKKAADEAKKA 151

RESULT 14
 US-10-437-963-186290
 ; Sequence 186290, Application US/10437963
 ; Publication No. US20040123343A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J.
 ; APPLICANT: Kovalic, David K.
 ; APPLICANT: Zhou, Yihua
 ; APPLICANT: Cao, Yongwei
 ; APPLICANT: Wu, Wei
 ; APPLICANT: Boukharov, Andrey A.
 ; APPLICANT: Barbazuk, Brad
 ; APPLICANT: Li, Ping
 ; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21(53221)B
 ; CURRENT APPLICATION NUMBER: US/10/437,963
 ; CURRENT FILING DATE: 2003-05-14
 ; NUMBER OF SEQ ID NOS: 204966
 ; SEQ ID NO 186290
 ; LENGTH: 293
 ; TYPE: PRT
 ; ORGANISM: Oryza sativa
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: PAT_MRT4530_83103C.1.pep
 US-10-437-963-186290

Query Match 53.7%; Score 58; DB 16; Length 293;

Best Local Similarity 62.5%; Pred. No. 3.8;
 Matches 15; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

Qy 1 AKKAAKAAKAAKAAKAAKAAKAA 24
 Db 258 AKKAAKAAKAAKAAKAAKAAKAA 281

RESULT 15
 US-10-156-761-12370
 ; Sequence 12370, Application US/10156761
 ; Publication No. US20030119018A1
 ; GENERAL INFORMATION:
 ; APPLICANT: OMURA, SATOSHI
 ; APPLICANT: IKEDA, HARUO
 ; APPLICANT: ISHIKAWA, JUN
 ; APPLICANT: HORIKAWA, HIROSHI
 ; APPLICANT: SHIBA, TADAYOSHI
 ; APPLICANT: SAKAKI, YOSHIYUKI
 ; APPLICANT: HATTORI, MASAHIRA
 ; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 ; FILE REFERENCE: 249-262
 ; CURRENT APPLICATION NUMBER: US/10/156,761
 ; CURRENT FILING DATE: 2002-05-29
 ; PRIOR APPLICATION NUMBER: JP 2001-204089
 ; PRIOR FILING DATE: 2001-05-30
 ; PRIOR APPLICATION NUMBER: JP 2001-272697
 ; PRIOR FILING DATE: 2001-08-02
 ; NUMBER OF SEQ ID NOS: 15109
 ; SEQ ID NO 12370
 ; LENGTH: 272
 ; TYPE: PRT
 ; ORGANISM: Streptomyces avermitilis
 US-10-156-761-12370

Query Match 53.2%; Score 57.5; DB 14; Length 272;
 Best Local Similarity 51.7%; Pred. No. 4.1;
 Matches 15; Conservative 4; Mismatches 5; Indels 5; Gaps 1;

Qy 1 AKKAR-----AAKAAKAAKAAKAAKAA 24
 Db 94 AKQAKSLADAKKAAEATKKAAARRAAA 122

Search completed: August 17, 2004, 17:19:23
 Job time : 37.8416 secs

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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 8.95545 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-54

Perfect score: 81

Sequence: 1 ARRAKARRAKARRAKA 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

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- 2: /cgn2_6/prodata/2/iaa/5B COMB.pep.*
- 3: /cgn2_6/prodata/2/iaa/6A COMB.pep.*
- 4: /cgn2_6/prodata/2/iaa/6B COMB.pep.*
- 5: /cgn2_6/prodata/2/iaa/PCOTUS COMB.pep.*
- 6: /cgn2_6/prodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	52	64.2	134	4	US-09-252-991A-30158
2	51	63.0	907	4	US-09-252-991A-24114
3	48	59.3	844	4	US-09-252-991A-27184
4	47	58.0	38	2	US-08-436-703B-17
5	47	58.0	39	2	US-08-436-703B-5
6	47	58.0	346	3	US-09-352-990-23
7	46	56.8	218	3	US-09-041-889-4
8	46	56.8	218	3	US-08-837-058-4
9	46	56.8	218	4	US-09-417-264-4
10	45	56.8	338	4	US-09-252-991A-16820
11	45	55.6	92	4	US-09-056-556-228
12	45	55.6	92	4	US-09-072-967-223
13	45	55.6	92	4	US-09-072-967-228
14	45	55.6	160	4	US-09-056-556-235
15	45	55.6	160	4	US-09-072-956-230
16	45	55.6	160	4	US-09-072-967-235
17	45	55.6	197	4	US-09-252-991A-27204
18	45	55.6	1213	3	US-09-413-814-79
19	44	54.3	19	2	US-08-660-592-10
20	44	54.3	139	4	US-09-770-834-13
21	44	54.3	181	4	US-09-252-991A-23085
22	43	53.1	128	4	US-09-489-039A-9063
23	43	53.1	147	4	US-09-252-991A-23465
24	43	53.1	204	4	US-09-134-000C-3554
25	42.5	52.5	21	2	US-08-660-592-9
26	42.5	52.5	21	3	US-09-166-930A-7
27	42.5	52.5	143	4	US-09-252-991A-21367

Sequence 16834, A
Sequence 6, Appli
Sequence 6, Appli
Sequence 769, App
Sequence 25663, A
Sequence 17560, A
Sequence 26049, A
Sequence 24758, A
Sequence 18768, A
Sequence 184, App
Sequence 20213, A
Sequence 17196, A
Sequence 25, Appl
Sequence 25, Appl
Sequence 4, Appli
Sequence 97, Appli
Sequence 3, Appli

US-09-252-991A-16834
US-08-894-339-6
US-09-306-044-6
US-09-732-210-769
US-09-252-991A-25663
US-09-252-991A-17560
US-09-252-991A-26049
US-09-252-991A-24758
US-09-252-991A-18768
US-09-963-137-184
US-09-252-991A-20213
US-09-252-991A-17196
US-08-346-849-25
US-08-293-284A-25
US-08-898-300-25
US-08-993-008A-4
US-09-030-619-97
US-08-152-488-3

ALIGNMENTS

RESULT 1
US-09-252-991A-30158
; Sequence 30158, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 30158
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30158

Query Match 64.2%; Score 52; DB 4; Length 134;
Best Local Similarity 64.7%; Pred. No. 1;
Matches 11; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKARRAKARRAK 17
DB 64 ARCAAAARSRAARR 80

RESULT 2
US-09-252-991A-24114
; Sequence 24114, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24114
; LENGTH: 907
; TYPE: PRT

ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24114

Query Match 63.0%; Score 51; DB 4; Length 907;
Best Local Similarity 58.8%; Pred. No. 8.1;
Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 ARRAKARRAKARRAK 17
DB 95 ARARRRRSARRAR 111

RESULT 3
US-09-252-991A-27184
Sequence 27184, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252.991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 27184
LENGTH: 844
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27184

Query Match 59.3%; Score 48; DB 4; Length 844;
Best Local Similarity 61.1%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKARRAKARRAKA 18
DB 139 ARKAEARRAKAQERAA 156

RESULT 4
US-08-436-703B-17
Sequence 17, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995

CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:

CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE: N/A
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-17

Query Match 58.0%; Score 47; DB 2; Length 38;
Best Local Similarity 73.7%; Pred. No. 1.5;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 ARRAKARRAKARRAK 17
DB 6 ARARRARRARRARRAR 24

RESULT 5
US-08-436-703B-5
Sequence 5, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:


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;
; TELEPHONE: 313-965-1976
; TELEFAX: 313-965-1951
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 39 amino acids
;   TYPE: amino acid
;   STRANDEDNESS: N/A
;   TOPOLOGY: N/A
;   MOLECULE TYPE: peptide
;   ORIGINAL SOURCE:
;   ORGANISM: N/A
;   PUBLICATION INFORMATION:
;   AUTHORS: N/A
;   TITLE: N/A
; US-08-436-703B-5
;
; Query Match
; Best Local Similarity 58.0%; Score 47; DB 2; Length 39;
; Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;
;
; QY 1 ARRA-KAARRA-KAARRAK 17
; Db 6 ARRAARRAARRAARRAR 24
;
; RESULT 6
; US-09-352-990-23
; Sequence 23, Application US/09352990
; Patent No. 6255090
; GENERAL INFORMATION:
; APPLICANT: Farnodu, Layo O.
; APPLICANT: Crozco, Buddy
; APPLICANT: Rafalski, Antoni
; TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
; FILE REFERENCE: BB-1191
; CURRENT APPLICATION NUMBER: US/09/352,990
; CURRENT FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,866
; EARLIER FILING DATE: July 15, 1998
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
; US-09-352-990-23
;
; Query Match
; Best Local Similarity 58.0%; Score 47; DB 3; Length 346;
; Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
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; QY 5 KAARRAKAARRAKA 18
; Db 12 KGAKKAKAARRAKA 25
;
; RESULT 7
; US-09-041-889-4
; Sequence 4, Application US/09041889
; Patent No. 603864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC pANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
;
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/041,889
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: US 08/837,058
; APPLICATION NUMBER: US 08/837,058
; FILING DATE: 11-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 218 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION: /note= "product = Human Histone
; OTHER INFORMATION: HI-S-4"
; US-09-041-889-4
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; Query Match
; Best Local Similarity 56.8%; Score 46; DB 3; Length 218;
; Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
;
; QY 1 ARRAKAARRAKAARRAKA 18
; Db 166 AKKAKPKKAKAARRAKA 183
;
; RESULT 8
; US-08-837-058-4
; Sequence 4, Application US/08837058
; Patent No. 6074835
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan R.
; APPLICANT: Egena, Mark
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Histone H1
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
;
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/837,058
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 2438
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; INFORMATION FOR SEQ ID NO: 228:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-056-556-228

Query Match 55.6%; Score 45; DB 4; Length 92;
Best Local Similarity 58.8%; Pred. No. 6.4;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRAKA 18
: || | : || || | :
Db 30 QRAAALEKAAARRARA 46

RESULT 12
US-09-072-596-223
; Sequence 223, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond S.
; APPLICANT: Vedvick, Thomas R.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 223:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-072-596-223

Query Match 55.6%; Score 45; DB 4; Length 92;
Best Local Similarity 58.8%; Pred. No. 6.4;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRAKA 18
: || | : || || | :
Db 30 QRAAALEKAAARRARA 46

; INFORMATION FOR SEQ ID NO: 228:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-056-556-228

Query Match 55.6%; Score 45; DB 4; Length 92;
Best Local Similarity 58.8%; Pred. No. 6.4;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRAKA 18
: || | : || || | :
Db 30 QRAAALEKAAARRARA 46

RESULT 12
US-09-072-596-223
; Sequence 223, Application US/09072596
; Patent No. 6458366
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonia
; APPLICANT: Houghton, Raymond S.
; APPLICANT: Vedvick, Thomas R.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
; NUMBER OF SEQUENCES: 350
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,596
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.417C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 223:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-072-596-223

Query Match 55.6%; Score 45; DB 4; Length 92;
Best Local Similarity 58.8%; Pred. No. 6.4;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRAKA 18
: || | : || || | :
Db 30 QRAAALEKAAARRARA 46

RESULT 13
US-09-072-967-228
; Sequence 228, Application US/09072967
; Patent No. 6592877
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Houghton, Raymond S.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Twardzik, Daniel R.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Hendrickson, Ronald C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
; NUMBER OF SEQUENCES: 355
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/072,967
; FILING DATE: 05-MAY-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.411C9
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 228:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 92 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-072-967-228

Query Match 55.6%; Score 45; DB 4; Length 92;
Best Local Similarity 58.8%; Pred. No. 6.4;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRAKA 18
: || | : || || | :
Db 30 QRAAALEKAAARRARA 46

RESULT 14
US-09-056-556-235
; Sequence 235, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue

```

, CITY: Seattle
, STATE: Washington
, COUNTRY: USA
, ZIP: 98104-7092
, COMPUTER READABLE FORM:
, MEDIUM TYPE: Floppy disk
, COMPUTER: IBM PC compatible
, OPERATING SYSTEM: PC-DOS/MS-DOS
, SOFTWARE: Patent In Release #1.0, Version #1.30
, CURRENT APPLICATION DATA:
, APPLICATION NUMBER: US/09/056,556
, FILING DATE: 07-APR-1998
, CLASSIFICATION:
, ATTORNEY/AGENT INFORMATION:
, NAME: Maki, David J.
, REGISTRATION NUMBER: 31,392
, REFERENCE/DOCKET NUMBER: 21021.457
, TELECOMMUNICATION INFORMATION:
, TELEPHONE: (206) 622-4900
, TELEFAX: (206) 682-6031
, INFORMATION FOR SEQ ID NO: 235:
, SEQUENCE CHARACTERISTICS:
, LENGTH: 160 amino acids
, TYPE: amino acid
, STRANDEDNESS: single
, TOPOLOGY: linear
, MOLECULE TYPE: protein
, US-09-056-556-235

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Query Match 55.6%; Score 45; DB 4; Length 160;
Best Local Similarity 58.8%; Pred. No. 11;
Matches 10; Conservative 3; Mismatches 4; Indels

Qy 2 RRAKAARRAKAARRAKA 18
 :|:|:|:|:|:|:|:
Db 22 ORAAALEKAAAARRARA 38

RESULT 15
US-09-072-596-230
; Sequence 230, Application US/09072596
: Patent No. 6458366

GENERAL INFORMATION:
 APPLICANT: Reed, Steven G.
 APPLICANT: Skeiky, Yasir A.W.
 APPLICANT: Dillon, Davin C.
 APPLICANT: Campos-Neto, Antonia
 APPLICANT: Houghton, Raymond
 APPLICANT: Vedvick, Thomas S.
 APPLICANT: Twardzik, Daniel R.
 APPLICANT: Lodes, Michael J.
 APPLICANT: Hendrickson, Ronald C.
 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
 TUBERCULOSIS
 NUMBER OF SEQUENCES: 350
 CORRESPONDENCE ADDRESS:
 ADDRESSER: SEED and BERRY LLP
 STREET: 6300 Columbia Center, 701 Fifth Avenue
 CITY: Seattle
 STATE: Washington
 COUNTRY: USA
 ZIP: 98104-7092
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/072,596
 FILING DATE: 05-MAY-1998
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Maki, David J.
 REGISTRATION NUMBER: 31,392

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 28.3812 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-54

Perfect score: 81

Sequence: 1 ARRAKARRAKARRAKA 18

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

- 1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/PTCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
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- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/1/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	49	60.5	88	16	US-10-437-963-185672
2	48	59.3	200	12	US-10-425-114-70601
3	48	59.3	243	9	US-09-771-161A-127
4	48	59.3	840	9	US-09-815-242-5198
5	48	59.3	840	12	US-10-282-122A-43614
6	48	59.3	840	14	US-10-127-032-108131
7	47	58.0	106	16	US-10-437-963-185672
8	47	58.0	138	14	US-10-156-761-12462
9	47	58.0	272	14	US-10-156-761-12370
10	47	58.0	346	10	US-09-846-589A-23
11	47	58.0	411	12	US-10-425-114-57956
12	46	56.8	26	9	US-09-888-721-2
13	46	56.8	26	9	US-09-888-721-32
14	46	56.8	55	16	US-10-240-430-8
15	46	56.8	66	16	US-10-240-430-7

16	46	56.8	130	14	US-10-262-209-2	Sequence 2, Appli
17	46	56.8	130	16	US-10-240-430-5	Sequence 5, Appli
18	46	56.8	218	14	US-10-223-567-4	Sequence 4, Appli
19	46	56.8	234	14	US-10-262-209-1	Sequence 1, Appli
20	46	56.8	234	16	US-10-240-430-2	Sequence 2, Appli
21	46	56.8	276	9	US-09-738-626-4122	Sequence 4122, Ap
22	46	56.8	1455	16	US-10-437-963-154235	Sequence 154235,
23	46	56.8	1609	16	US-10-437-963-154232	Sequence 154232,
24	45	55.6	92	14	US-10-193-002-223	Sequence 223, App
25	45	55.6	92	14	US-10-084-843-228	Sequence 228, App
26	45	55.6	105	14	US-10-080-170-339	Sequence 339, App
27	45	55.6	105	16	US-10-080-170-339	Sequence 339, App
28	45	55.6	160	14	US-10-193-002-230	Sequence 230, App
29	45	55.6	160	14	US-10-084-843-235	Sequence 235, App
30	45	55.6	213	13	US-10-004-717-21	Sequence 21, Appl
31	45	55.6	258	16	US-10-437-963-117975	Sequence 117975,
32	45	55.6	289	16	US-10-437-963-190954	Sequence 190954,
33	45	55.6	454	16	US-10-437-963-187134	Sequence 187134,
34	44	54.3	34	19	US-09-905-691-2	Sequence 2, Appli
35	44	54.3	87	16	US-10-437-963-145014	Sequence 145014,
36	44	54.3	110	16	US-10-437-963-125940	Sequence 125940,
37	44	54.3	139	9	US-09-771-383-12	Sequence 12, Appl
38	44	54.3	139	11	US-09-770-834-13	Sequence 13, Appl
39	44	54.3	139	16	US-10-717-138-13	Sequence 13, Appl
40	44	54.3	140	16	US-10-437-963-153634	Sequence 153634,
41	44	54.3	153	16	US-10-437-963-109300	Sequence 109300,
42	44	54.3	434	12	US-10-425-114-65935	Sequence 65935, A
43	44	54.3	1043	16	US-10-437-963-193027	Sequence 193027,
44	44	54.3	1276	16	US-10-437-963-159386	Sequence 159386,
45	43	53.1	61	12	US-10-424-599-228978	Sequence 228978,

ALIGNMENTS

RESULT 1

US-10-437-963-185672
; Sequence 185672, Application US/10437963
; Publication No. US20040123343A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.

; APPLICANT: Barbazuk, Brad

; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53221) B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 185672

; LENGTH: 88

; TYPE: PAT

; ORGANISM: Oryza sativa

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(88)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT4530_82545C.1.pep

US-10-437-963-185672

Query Match 60.5%; Score 49; DB 16; Length 88;

Best Local Similarity 62.5%; Pred. No. 6.4;

Matches 10; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 RRKAARRAKARRAK 17

|||||

DB 47 RRSRRAGGARRAR 62

```

; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; FILE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELITRA.031A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5198
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-815-242-5198

Query Match      59.3%; Score 48; DB 9; Length 840;
Best Local Similarity 61.1%; Pred. No. 76;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      1  ARRAKAAARRAKAARRAKA 18
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Db      135  ARKAEAAARAKAAQAAA 152

RESULT 5
US-10-282-122A-43614
; Sequence 43614, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335

US-10-425-114-70601
; Sequence 70601, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovacic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 70601
; LENGTH: 200
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3689-234-E7_FLI.pap
; US-10-425-114-70601

Query Match      59.3%; Score 48; DB 12; Length 200;
Best Local Similarity 66.7%; Pred. No. 19;
Matches 10; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      3  RAKAARRAKAARRAK 17
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Db      147  RARAARRARRARR 161

RESULT 3
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US20020110811A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-771-161A-127

Query Match      59.3%; Score 48; DB 9; Length 243;
Best Local Similarity 61.1%; Pred. No. 23;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY      1  ARRAKAAARRAKAARRAKA 18
      |||:|||||:|
Db      11  ARAAEAAARAAKAAEA 28

RESULT 4
US-09-815-242-5198
; Sequence 5198, Application US/09815242
; Patent No. US20020061569A1
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; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43614
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-43614

Query Match      59.3%; Score 48; DB 12; Length 840;
Best Local Similarity 61.1%; Pred. No. 76;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKAAARRAKAARRAKA 18
   |||:|||||:|
Db 135 ARKAEERAKAQAQAAA 152

RESULT 6
US-10-127-032-108
; Sequence 108, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Banger, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 108
; LENGTH: 840
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-108

Query Match      59.3%; Score 48; DB 14; Length 840;
Best Local Similarity 61.1%; Pred. No. 76;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARKAAARRAKAARRAKA 18
   |||:|||||:|
Db 135 ARKAEERAKAQAQAAA 152

RESULT 7
US-10-437-963-148131
; Sequence 148131, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
```

```
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148131
; LENGTH: 106
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_48593C.1.pep
US-10-437-963-148131
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Query Match 58.0%; Score 47; DB 16; Length 106;
Best Local Similarity 58.8%; Pred. No. 15;
Matches 10; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

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QY 2 PRKAAARRAKAARRAKA 18
   |||:|||||:|
Db 30 RRTKASRSSSSRRAAA 46
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RESULT 8
US-10-156-761-12462
; Sequence 12462, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12462
; LENGTH: 138
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12462
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Query Match 58.0%; Score 47; DB 14; Length 138;
Best Local Similarity 73.3%; Pred. No. 19;
Matches 11; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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QY 4 AKAAARRAKAARRAKA 18
   |||:|||||:|
Db 10 SKAAAKAARAKAARVAKA 24
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RESULT 9
US-10-156-761-12370
; Sequence 12370, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
```

```
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12370
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12370

Query Match      58.0%; Score 47; DB 14; Length 272;
Best Local Similarity 52.9%; Pred. No. 36;
Matches 9; Conservative 6; Mismatches 2; Indels 0; Gaps 0;

QY 2 RRAKAAARRAKAARRAKA 18
Db 106 KKAATKAAEAARRAAA 122

RESULT 10
US-09-846-589A-23
; Sequence 23, Application US/09846589A
; Publication No. US20030166241A1
; GENERAL INFORMATION:
; APPLICANT: Pamodu, Lavo O.
; APPLICANT: Orozco, Buddy
; APPLICANT: Rafalski, Antoni
; TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
; FILE REFERENCE: BB-1191
; CURRENT APPLICATION NUMBER: US/09/846,589A
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/092,866
; PRIOR FILING DATE: July 15, 1998
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-846-589A-23

Query Match      59.0%; Score 47; DB 10; Length 346;
Best Local Similarity 64.3%; Pred. No. 45;
Matches 9; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 5 KAARRAKAARRAKA 18
Db 12 KGAKKAKAKAKA 25

RESULT 11
US-10-425-114-57956
; Sequence 57956, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B

; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 57956
; LENGTH: 411
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLMO17297F06_FLI.pep
US-10-425-114-57956

Query Match      58.0%; Score 47; DB 12; Length 411;
Best Local Similarity 61.1%; Pred. No. 53;
Matches 11; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
Db 116 ARRALAPPQVRAARRAQA 133

RESULT 12
US-09-888-721-2
; Sequence 2, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 2
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-2

Query Match      56.8%; Score 46; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 5.2;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARRAKAAARRAKAARRAKA 18
Db 1 AKKAKPKKAKAARRAKA 18

RESULT 13
US-09-888-721-32
; Sequence 32, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
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; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 32
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-32
Query Match 56.8%; Score 46; DB 9; Length 26;
Best Local Similarity 50.0%; Pred. No. 5.2;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 ARRAKAAARRAKAARRAKA 18
Db 12 AKKASPKKAKAAKPKKA 29
Search completed: August 17, 2004, 17:19:24
Job time : 29.3812 secs

; ORGANISM: Homo sapiens
US-10-240-430-7
Query Match 56.8%; Score 46; DB 16; Length 66;
Best Local Similarity 50.0%; Pred. No. 13;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 ARRAKAAARRAKAARRAKA 18
Db 12 AKKASPKKAKAAKPKKA 29
Search completed: August 17, 2004, 17:19:24
Job time : 29.3812 secs

RESULT 14
US-10-240-430-8
; Sequence 8, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-8
Query Match 56.8%; Score 46; DB 16; Length 55;
Best Local Similarity 50.0%; Pred. No. 11;
Matches 9; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 1 ARRAKAAARRAKAARRAKA 18
Db 12 AKKASPKKAKAAKPKKA 29

RESULT 15
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 66
; TYPE: PRT

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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
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Title: US-09-496-391-55

Perfect score: 108

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Scoring table: BLOSUM62

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Searched: 389414 seqs, 51625971 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	70	64.8	38	2	US-08-436-703B-17
2	70	64.8	39	2	US-08-436-703B-5
3	67	62.0	163	4	US-09-252-991A-25541
4	65	60.2	308	4	US-09-252-991A-29958
5	65	60.2	1374	4	US-09-252-991A-24636
6	63	58.3	133	4	US-09-252-991A-23880
7	63	58.3	435	4	US-09-252-991A-24702
8	62	57.4	148	4	US-09-252-991A-23276
9	61	56.5	714	4	US-09-252-991A-24776
10	60.5	56.0	262	4	US-09-252-991A-32484
11	60	55.6	231	4	US-09-252-991A-32190
12	59	54.6	21	2	US-08-660-592-9
13	59	54.6	21	3	US-09-166-930A-7
14	59	54.6	464	4	US-09-252-991A-33108
15	58.5	54.2	407	4	US-09-252-991A-20436
16	58	53.7	23	2	US-08-847-176-16
17	58	53.7	31	3	US-08-995-172-1
18	58	53.7	31	3	US-08-839-624-27
19	58	53.7	31	4	US-09-150-812-27
20	58	53.7	472	4	US-09-252-991A-17011
21	57.5	53.2	155	4	US-09-252-991A-17230
22	57.5	53.2	156	4	US-09-252-991A-17230
23	57.5	53.2	236	4	US-09-252-991A-16834
24	57.5	53.2	326	4	US-09-252-991A-1916
25	57.5	53.2	594	4	US-09-252-991A-25474
26	57	52.8	26	4	US-09-252-991A-20849
27	57	52.8	28	1	US-08-125-138-15
28	57	52.8	28	1	US-08-281-702A-8

28 57 52.8 28 2 US-08-618-917-8 Sequence 8, Appli
29 57 52.8 184 4 US-09-252-991A-27801 Sequence 27801, A
30 56.5 52.3 142 4 US-09-252-991A-32258 Sequence 32258, A
31 56.5 52.3 783 4 US-09-252-991A-18035 Sequence 18035, A
32 56 51.9 135 4 US-09-252-991A-24160 Sequence 24160, A
33 56 51.9 206 4 US-09-252-991A-16775 Sequence 16775, A
34 56 51.9 282 4 US-09-252-991A-21224 Sequence 21224, A
35 56 51.9 437 4 US-09-252-991A-24390 Sequence 24390, A
36 56 51.9 531 4 US-09-252-991A-26049 Sequence 26049, A
37 56 51.9 538 4 US-09-252-991A-22200 Sequence 22200, A
38 56 51.9 573 4 US-09-252-991A-22382 Sequence 22382, A
39 56 51.9 601 4 US-09-252-991A-27821 Sequence 27821, A
40 56 51.9 816 4 US-09-252-991A-23292 Sequence 23292, A
41 56 51.9 830 4 US-09-252-991A-20619 Sequence 20619, A
42 55.5 51.4 160 4 US-09-252-991A-17249 Sequence 17249, A
43 55.5 51.4 220 4 US-09-252-991A-25817 Sequence 25817, A
44 55.5 51.4 664 4 US-09-252-991A-25836 Sequence 25836, A
45 55 50.9 133 4 US-09-252-991A-28869 Sequence 28869, A

ALIGNMENTS

RESULT 1

US-08-436-703B-17
; Sequence 17, Application US/08436703B
; Patent No. 5913761
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR
; TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
; TITLE OF INVENTION: WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 6601 Woodward Avenue
; STREET: Suite 1525
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6;
; SOFTWARE: ASCII (DOS)text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,703B
; FILING DATE: 08-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: N/A
; FILING DATE: N/A
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: 7WK-060548-00233
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-965-1976
; TELEFAX: 313-965-1951
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 38 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A


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; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24636
; LENGTH: 1374
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24636

Query Match      60.2%; Score 65; DB 4; Length 1374;
Best Local Similarity 66.7%; Pred. No. 0.81;
Matches 16; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 1 RRRRAAARRRAAARRRAA 24
Db 106 AARRAARRAGRAARRRRRGAA 129

RESULT 6
US-09-252-991A-23880
; Sequence 23880, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23880
; LENGTH: 133
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23880

Query Match      58.3%; Score 63; DB 4; Length 133;
Best Local Similarity 53.1%; Pred. No. 0.16;
Matches 17; Conservative 2; Mismatches 3; Indels 10; Gaps 1;

Qy 2 RRRRAAARRRAA-----AARRRAAR 23
Db 49 RRRRAARRRRRAARPVAHPAGASARRASR 80

RESULT 7
US-09-252-991A-24702
; Sequence 24702, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24702
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; LENGTH: 435
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24702

Query Match      58.3%; Score 63; DB 4; Length 435;
Best Local Similarity 68.2%; Pred. No. 0.49;
Matches 15; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 2 RRRRAAARRRAAARRRAAR 23
Db 44 RRRRAARLPARRAARRAARRRRR 65

RESULT 8
US-09-252-991A-23276
; Sequence 23276, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 23276
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-23276

Query Match      57.4%; Score 62; DB 4; Length 148;
Best Local Similarity 60.9%; Pred. No. 0.23;
Matches 14; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

Qy 2 RRRRAAARRRAAARRRAARA 24
Db 12 RRRRAARRRRRRRTARRTAPAA 34

RESULT 9
US-09-252-991A-24776
; Sequence 24776, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 24776
; LENGTH: 714
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-24776

Query Match      56.5%; Score 61; DB 4; Length 714;
Best Local Similarity 69.6%; Pred. No. 1.4;
Matches 16; Conservative 1; Mismatches 4; Indels 2; Gaps 1;

Qy 3 RRAARAA--RRRAAARRRAAR 23
Db 12 RRRRAARRRRRRRTARRTAPAA 34
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RESULT 14
US-09-252-991A-33108
; Sequence 33108, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 33108
; LENGTH: 464
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-33108

Query Match 54.6%; Score 59; DB 4; Length 464;
Best Local Similarity 62.5%; Pred. No. 1.6;
Matches 15; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY 1 AAAAAAARAAAAAARA 24
DB 25 AAAAAAARAAAAAARA 48

RESULT 15
US-09-252-991A-20436
; Sequence 20436, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 20436
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20436

Query Match 54.2%; Score 58.5; DB 4; Length 407;
Best Local Similarity 69.2%; Pred. No. 1.6;
Matches 18; Conservative 1; Mismatches 4; Indels 3; Gaps 2;
QY 2 RRAAFAA--RRRAFAAR-RAARA 24
DB 296 RRAAFAA--RRRAFAAR-RAARA 321

Search completed: August 17, 2004, 16:14:42
Job time : 12.9406 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-55
Perfect score: 108
Sequence: 1 ARRAARRAARRAARRAARRA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

- Database : Published Applications AA:*
- 1: /cgn2_6/prodata/1/pubpaa/US07_PUBCOMB.pep.*
 - 2: /cgn2_6/prodata/1/pubpaa/PCT_NEW_PUB.pep.*
 - 3: /cgn2_6/prodata/1/pubpaa/US06_NEW_PUB.pep.*
 - 4: /cgn2_6/prodata/1/pubpaa/US06_PUBCOMB.pep.*
 - 5: /cgn2_6/prodata/1/pubpaa/US07_NEW_PUB.pep.*
 - 6: /cgn2_6/prodata/1/pubpaa/PCTUS_PUBCOMB.pep.*
 - 7: /cgn2_6/prodata/1/pubpaa/US08_NEW_PUB.pep.*
 - 8: /cgn2_6/prodata/1/pubpaa/US08_PUBCOMB.pep.*
 - 9: /cgn2_6/prodata/1/pubpaa/US09A_PUBCOMB.pep.*
 - 10: /cgn2_6/prodata/1/pubpaa/US09B_PUBCOMB.pep.*
 - 11: /cgn2_6/prodata/1/pubpaa/US09C_PUBCOMB.pep.*
 - 12: /cgn2_6/prodata/1/pubpaa/US09_NEW_PUB.pep.*
 - 13: /cgn2_6/prodata/1/pubpaa/US10A_PUBCOMB.pep.*
 - 14: /cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB.pep.*
 - 15: /cgn2_6/prodata/1/pubpaa/US10C_PUBCOMB.pep.*
 - 16: /cgn2_6/prodata/1/pubpaa/US10_NEW_PUB.pep.*
 - 17: /cgn2_6/prodata/1/pubpaa/US60_NEW_PUB.pep.*
 - 18: /cgn2_6/prodata/1/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	66	61.1	827	16 US-10-437-963-152005	Sequence 152005,
2	64	59.3	926	16 US-10-437-963-193381	Sequence 193381,
3	63	58.3	206	14 US-10-226-007-33	Sequence 33, Appl
4	62	57.4	84	12 US-10-424-599-269191	Sequence 269191,
5	62	57.4	1469	16 US-10-437-963-194621	Sequence 194621,
6	61	56.5	143	16 US-10-437-963-102676	Sequence 102676,
7	61	56.5	159	16 US-10-437-963-126398	Sequence 126398,
8	61	56.5	423	16 US-10-437-963-185856	Sequence 185856,
9	61	56.5	850	12 US-10-424-599-242653	Sequence 242653,
10	60	55.6	210	16 US-10-437-963-148098	Sequence 148098,
11	60	55.6	258	12 US-10-425-114-47317	Sequence 47317, A
12	60	55.6	276	12 US-10-425-114-56515	Sequence 56515, A
13	60	55.6	261	12 US-10-425-114-69952	Sequence 69952, A
14	60	55.6	636	12 US-10-425-114-37076	Sequence 37076, A
15	59.5	55.1	171	16 US-10-437-963-174159	Sequence 174159,

16	59	54.6	144	16	US-10-437-963-131770	Sequence 131770,
17	59	54.6	163	12	US-10-425-114-54452	Sequence 54452, A
18	59	54.6	168	16	US-10-437-963-151165	Sequence 151165,
19	59	54.6	1043	16	US-10-437-963-184911	Sequence 184911,
20	59	54.6	1056	16	US-10-408-765A-2448	Sequence 2448, Ap
21	59	54.6	19662	15	US-10-084-846A-6	Sequence 6, Appl
22	58	53.7	122	16	US-10-437-963-142688	Sequence 142688,
23	58	53.7	936	16	US-10-437-963-182465	Sequence 182465,
24	57.5	53.2	89	16	US-10-437-963-157858	Sequence 157858,
25	57.5	53.2	135	16	US-10-437-963-125678	Sequence 125678,
26	57	52.8	209	16	US-10-437-963-175682	Sequence 175682,
27	57	52.8	210	16	US-10-437-963-147829	Sequence 147829,
28	57	52.8	236	12	US-10-425-114-71059	Sequence 71059, A
29	57	52.8	272	16	US-10-437-963-170212	Sequence 170212,
30	57	52.8	434	16	US-10-437-963-168960	Sequence 168960,
31	57	52.8	503	12	US-10-282-122A-50517	Sequence 50517, A
32	57	52.8	513	12	US-10-282-122A-50002	Sequence 50002, A
33	57	52.8	534	16	US-10-437-963-131805	Sequence 131805,
34	57	52.8	1564	16	US-10-437-963-153070	Sequence 153070,
35	56.5	52.3	166	16	US-10-437-963-147783	Sequence 147783,
36	56.5	52.3	756	16	US-10-437-963-196108	Sequence 196108,
37	56	51.9	30	14	US-10-192-832-70	Sequence 70, Appl
38	56	51.9	149	16	US-10-437-963-140213	Sequence 140213,
39	56	51.9	151	16	US-10-437-963-171046	Sequence 171046,
40	56	51.9	155	16	US-10-437-963-149694	Sequence 149694,
41	56	51.9	197	16	US-10-437-963-188025	Sequence 188025,
42	56	51.9	207	16	US-10-437-963-118720	Sequence 118720,
43	56	51.9	231	15	US-10-104-047-3565	Sequence 3565, Ap
44	56	51.9	235	14	US-10-153-668-59	Sequence 59, Appl
45	56	51.9	318	14	US-10-156-761-7720	Sequence 7720, Ap

ALIGNMENTS

RESULT 1
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US2004012343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pep
US-10-437-963-152005

Query Match 61.1%; Score 66; DB 16; Length 827;
Best Local Similarity 72.7%; Pred.No. 4.2; Mismatches 5; Indels 0; Gaps 0;
Matches 16; Conservative 1;

QY 1 ARRAARRAARRAARRAARRA 22
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Db 464 ARRAARRAARRAARRAARRA 485

RESULT 2
US-10-437-963-193381

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; Sequence 193381, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 193381
; LENGTH: 926
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(926)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_89525C.1.pep
US-10-437-963-193381

Query Match      59.3%; Score 64; DB 16; Length 926;
Best Local Similarity 62.5%; Pred. No. 7.8;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARRRRAAARRRAARRRAARA 24
Db 574 ARRAAARAAKAREARQAERA 597

RESULT 3
US-10-226-007-33
; Sequence 33, Application US/10226007
; Publication No. US20030105277A1
; GENERAL INFORMATION:
; APPLICANT: Myriad Genetics, Inc.
; APPLICANT: Morham, Scott
; APPLICANT: Zavitz, Kenton
; APPLICANT: Hobden, Adrian
; TITLE OF INVENTION: Compositions and Therapeutic Methods for Viral Infection
; FILE REFERENCE: 5005.01
; CURRENT APPLICATION NUMBER: US/10/226,007
; CURRENT FILING DATE: 2002-11-15
; PRIOR APPLICATION NUMBER: US 60/313,883
; PRIOR FILING DATE: 2001-08-21
; NUMBER OF SEQ ID NOS: 1673
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 33
; LENGTH: 206
; TYPE: PRT
; ORGANISM: human herpesvirus 1
; FEATURE:
US-10-226-007-33

Query Match      58.3%; Score 63; DB 14; Length 206;
Best Local Similarity 66.7%; Pred. No. 2.8;
Matches 14; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 ARRRRAAARRRAARRRA 21
Db 81 AAQAAARRRAARRRAQRRS 101

RESULT 4
US-10-424-599-269191
; Sequence 269191, Application US/10424599
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285664
; SEQ ID NO 269191
; LENGTH: 84
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(84)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_850C.1.pep
US-10-424-599-269191

Query Match      57.4%; Score 62; DB 12; Length 84;
Best Local Similarity 62.5%; Pred. No. 1.7;
Matches 15; Conservative 2; Mismatches 7; Indels 0; Gaps 0;

QY 1 ARRRRAAARRRAARRRAARA 24
Db 22 ARRAAARAAVEKANTEARKAERA 45

RESULT 5
US-10-437-963-194621
; Sequence 194621, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 194621
; LENGTH: 1469
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_90649C.1.pep
US-10-437-963-194621

Query Match      57.4%; Score 62; DB 16; Length 1469;
Best Local Similarity 65.2%; Pred. No. 20;
Matches 15; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 2 RRRRAAARRRAARRRAARA 24
Db 1429 RRRRAAARRRAARRRAARA 1451

RESULT 6
US-10-437-963-102676
; Sequence 102676, Application US/10437963
; Publication No. US20040123343A1
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; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 102676
; LENGTH: 143
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(143)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_100176C.1.pep
US-10-437-963-102676

Query Match          56.5%; Score 61; DB 16; Length 143;
Best Local Similarity 68.2%; Pred. No. 3.4; Mismatches 0; Indels 7; Gaps 0;
Matches 15; Conservative 0;

Qy 2 RRRRAAARRRAARRRAARRAAR 23
Db 22 RRRRAAARRRAARRRAARRAAR 43

RESULT 7
US-10-437-963-126398
; Sequence 126398, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 126398
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(850)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_28949C.1.pep
US-10-437-963-126398

Query Match          56.5%; Score 61; DB 16; Length 159;
Best Local Similarity 68.0%; Pred. No. 3.8; Mismatches 0; Indels 6; Gaps 1;
Matches 17; Conservative 0;

Qy 2 RRRRAA--RAARRRAARRRAARRA 24
Db 86 RRRRAARRRRRAARRAARRRDGAA 110

RESULT 8
US-10-437-963-185856
; Sequence 185856, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 185856
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Oryza sativa
; NAME/KEY: unsure
; LOCATION: (1)..(423)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT4530_82710C.1.pep
US-10-437-963-185856

Query Match          56.5%; Score 61; DB 16; Length 423;
Best Local Similarity 63.8%; Pred. No. 8.7; Mismatches 8; Indels 0; Gaps 0;
Matches 14; Conservative 0;

Qy 3 RRAARAARRRAARRRAARRAARA 24
Db 378 RRGGSRAARGARAGRRRRARA 399

RESULT 9
US-10-424-599-242653
; Sequence 242653, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 242653
; LENGTH: 850
; TYPE: PRT
; ORGANISM: Glycine max
; NAME/KEY: unsure
; LOCATION: (1)..(850)
; FEATURE:
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: PAT_MRT3847_61145C.1.pep
US-10-424-599-242653

Query Match          56.5%; Score 61; DB 12; Length 850;
Best Local Similarity 62.5%; Pred. No. 16; Mismatches 1; Indels 8; Gaps 0;
Matches 15; Conservative 1;

Qy 1 ARRAARAARRRAARRRAARRAARA 24
Db 579 AVEATREAFERAAARQAARAA 602

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RESULT 10
US-10-437-963-148098
; Sequence 148098, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 148098
; LENGTH: 210
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(210)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MFT4530_48563C.1.pap
US-10-437-963-148098

Query Match 55.6%; Score 60; DB 16; Length 210;
Best Local Similarity 54.5%; Pred. No. 6.2;
Matches 12; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 3 RRAAARRRRAARRRAARA 24
DB 62 RYAVGGRRRCVRSARRAARA 83

RESULT 11
US-10-425-114-47317
; Sequence 47317, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 47317
; LENGTH: 258
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700099647_FLI.pap
US-10-425-114-47317

Query Match 55.6%; Score 60; DB 12; Length 258;
Best Local Similarity 59.1%; Pred. No. 7.4;
Matches 13; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 2 RRAAARRRRAARRRAAR 23
DB 11 ARRAAARRRRAARRRAARA 34

DB 117 RRRSRHSRRRAASSARTTTR 138

RESULT 12
US-10-425-114-56515
; Sequence 56515, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 56515
; LENGTH: 276
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMFLB73257G03_FLI.pap
US-10-425-114-56515

Query Match 55.6%; Score 60; DB 12; Length 276;
Best Local Similarity 62.5%; Pred. No. 7.9;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARRAAARRRRAARRRAARA 24
DB 28 ARKRAAARAAVERAAERQAAA 51

RESULT 13
US-10-425-114-69952
; Sequence 69952, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 69952
; LENGTH: 281
; TYPE: PRT
; ORGANISM: Zea mays subsp. mexicana
; FEATURE:
; OTHER INFORMATION: Clone ID: UC-ZMROTEOSINTE070B10_FLI.pap
US-10-425-114-69952

Query Match 55.6%; Score 60; DB 12; Length 281;
Best Local Similarity 62.5%; Pred. No. 8;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY 1 ARRAAARRRRAARRRAARA 24
DB 11 ARKRAAARAAVERAAERQAAA 34

RESULT 14
US-10-425-114-37076

Job time : 38.8416 secs

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; Sequence 37076, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 37076
; LENGTH: 636
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: 700073158_FLI.pep
US-10-425-114-37076

Query Match      55.6%; Score 60; DB 12; Length 636;
Best Local Similarity 62.5%; Pred. No. 16;
Matches 15; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

QY      1 ARRRARRRRRRARRRRARRA 24
DB      366 AKKRAAVERAATERRQAAA 389

RESULT 15
US-10-437-963-174159
; Sequence 174159, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 174159
; LENGTH: 171
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(171)
; OTHER INFORMATION: unsure at all xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_72127C.1.pep
US-10-437-963-174159

Query Match      55.1%; Score 59.5; DB 16; Length 171;
Best Local Similarity 57.1%; Pred. No. 5.9;
Matches 16; Conservative 0; Mismatches 7; Indels 5; Gaps 1;

QY      2 RRRARRRRRRARRA----RRRARA 24
DB      10 RRRRRRRRRRRARGAPSSRRRCXRA 37

Search completed: August 17, 2004, 17:19:25
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 11.9406 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-56
Perfect score: 108
Sequence: 1 AKAAKRAAKRAAKRAAKRA 24

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*
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6: /cgn2_6/ptodata/2/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	70	64.8	407	4	US-09-252-991A-29581
2	66	61.1	214	3	US-09-041-889-27
3	66	61.1	214	4	US-09-417-264-27
4	64	59.3	29	1	US-08-152-488-10
5	64	59.3	29	1	US-08-152-488-11
6	64	59.3	29	1	US-08-303-025-10
7	64	59.3	29	1	US-08-303-025-11
8	64	59.3	29	1	US-08-303-025-13
9	64	59.3	29	1	US-08-677-304-10
10	64	59.3	29	1	US-08-677-304-11
11	64	59.3	29	2	US-08-436-703B-3
12	64	59.3	29	2	US-08-436-703B-15
13	64	59.3	32	1	US-08-152-488-13
14	64	59.3	32	1	US-08-303-025-15
15	64	59.3	32	1	US-08-677-304-13
16	64	59.3	32	2	US-08-436-703B-2
17	64	59.3	33	1	US-08-303-025-16
18	64	59.3	33	2	US-08-436-703B-4
19	61	56.5	28	1	US-08-303-025-12
20	61	56.5	28	2	US-08-436-703B-1
21	61	56.5	60	1	US-08-346-849-16
22	61	56.5	60	2	US-08-293-284A-16
23	61	56.5	60	4	US-08-898-300-16
24	60	55.6	109	4	US-09-405-743A-7
25	59.5	55.1	316	4	US-09-252-991A-32957
26	58	53.7	35	4	US-09-405-743A-1
27	58	53.7	55	3	US-09-041-889-41

28 58 53.7 55 4 US-09-417-264-41 Sequence 41, Appl
29 58 53.7 158 3 US-09-041-889-40 Sequence 40, Appl
30 58 53.7 158 4 US-09-417-264-40 Sequence 40, Appl
31 58 53.7 226 3 US-09-041-889-32 Sequence 32, Appl
32 58 53.7 226 4 US-09-417-264-32 Sequence 32, Appl
33 57.5 53.2 56 4 US-09-405-743A-3 Sequence 3, Appl
34 57.5 53.2 77 4 US-09-405-743A-5 Sequence 5, Appl
35 57.5 53.2 86 4 US-09-405-743A-6 Sequence 6, Appl
36 57 52.8 29 1 US-08-152-488-12 Sequence 12, Appl
37 57 52.8 29 1 US-08-303-025-14 Sequence 14, Appl
38 57 52.8 29 1 US-08-677-304-12 Sequence 12, Appl
39 57 52.8 29 2 US-08-436-703B-16 Sequence 16, Appl
40 57 52.8 222 3 US-09-041-889-3 Sequence 3, Appl
41 57 52.8 222 3 US-08-837-058-3 Sequence 3, Appl
42 57 52.8 222 4 US-09-417-264-3 Sequence 3, Appl
43 56.5 52.3 37 1 US-08-231-730A-29 Sequence 29, Appl
44 56.5 52.3 37 1 US-08-427-001C-29 Sequence 29, Appl
45 56.5 52.3 37 1 US-08-457-798-29 Sequence 29, Appl

ALIGNMENTS

RESULT 1
US-09-252-991A-29581
; Sequence 29581, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29581
; LENGTH: 407
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29581

Query Match 64.8%; Score 70; DB 4; Length 407;
Best Local Similarity 62.5%; Pred. No. 0.098;
Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKAAKRAAKRAAKRAAKRA 24
Db 228 AEDAKKAAEDAKKAAEEAKKA 251

RESULT 2

US-09-041-889-27
; Sequence 27, Application US/09041889
; Patent No. 6033864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041.889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/937,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

Query Match 61.1%; Score 66; DB 3; Length 214;
Best Local Similarity 66.7%; Pred. No. 0.16;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAKRAAKRAAKRA 24
DB 108 ASAAKVKAKPAKATKAARKAA 131

RESULT 3

US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768
GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microsial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27
Query Match 61.1%; Score 66; DB 4; Length 214;
Best Local Similarity 66.7%; Pred. No. 0.16;
Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAKRAAKRAAKRA 24
DB 108 ASAAKVKAKPAKATKAARKAA 131

RESULT 4

US-08-152-488-10
Sequence 10, Application US/08152488
Patent No. 5534619
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A peptide
MOLECULE TYPE:
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-10

Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. No. 0.043;

Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 1 AKAAKKAAKAAK--KRAAKAAKRA 24
|||:|||||:|||||
Db 2 AKKAAKKAAKAAKAAKAAKAAKAA 27

RESULT 5

US-08-152-488-11
; Sequence 11, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-152-488-11

Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. No. 0.043;
Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 1 AKAAKKAAKAAK--KRAAKAAKRA 24
|||:|||||:|||||
Db 2 AKKAAKKAAKAAKAAKAAKAAKAA 27

RESULT 6

US-08-303-025-10

; Sequence 10, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-303-025-10

Query Match 59.3%; Score 64; DB 1; Length 29;
Best Local Similarity 65.4%; Pred. No. 0.043;
Matches 17; Conservative 2; Mismatches 5; Indels 2; Gaps 1;

Qy 1 AKAAKKAAKAAK--KRAAKAAKRA 24
|||:|||||:|||||
Db 2 AKKAAKKAAKAAKAAKAAKAAKAA 27

RESULT 7

US-08-303-025-11
; Sequence 11, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL

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ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28, 564
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:

Db 2 AKAAKKAACAAKAAKAAKAAKAAKAA 27

RESULT 14

US-08-303-025-15
; Sequence 15, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS v.6.22
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303.025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
; APPLICATION NUMBER: US 08/152.488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 15:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-303-025-15

Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.048;
Matches 17; Conservative 2; Mismatches 5; Indels 1;

Qy 1 AKAAKKAACAAKAAKAAKAAKAAKAA 24

Db 2 AKAAKKAACAAKAAKAAKAAKAAKAA 27

RESULT 15

US-08-677-304-13
; Sequence 13, Application US/08677304
; Patent No. 5721212
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.

; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/677.304
; FILING DATE:
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/152.488
; FILING DATE: 12-NOV-1993
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: No. 5721212 Relevant
; TOPOLOGY: No. 5721212 Relevant
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-677-304-13

Query Match 59.3%; Score 64; DB 1; Length 32;
Best Local Similarity 65.4%; Pred. No. 0.048;
Matches 17; Conservative 2; Mismatches 5; Indels 1;

Qy 1 AKAAKKAACAAKAAKAAKAAKAAKAA 24

Db 2 AKAAKKAACAAKAAKAAKAAKAAKAA 27

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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 37.8416 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-56
Perfect score: 108
Sequence: 1 AKAAXKRAAKAAXKRAAKAAXKRA 24

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Gapop 10.0 , Gapext 0.5

Searched: 1292805 seqs, 313927144 residues

Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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18: /cgn2_6/ptodata/1/pubaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	71	65.7	372	12	US-10-282-122A-68109, A
2	70	64.8	347	12	US-10-282-122A-66237
3	70	64.8	347	14	US-10-127-032-120
4	70	64.8	526	12	US-10-282-122A-53742
5	68	63.0	336	12	US-10-282-122A-69962
6	68	63.0	428	12	US-10-282-122A-55748
7	67	62.0	21	12	US-10-169-613-13
8	66	61.1	214	12	US-10-282-122A-62547
9	66	61.1	214	12	US-10-282-122A-64817
10	66	61.1	214	14	US-10-229-567-27
11	62	57.4	104	12	US-10-393-449-36
12	62	57.4	104	12	US-10-393-449-86
13	62	57.4	104	14	US-10-177-725-36
14	62	57.4	104	14	US-10-177-725-86
15	61	56.5	27	10	US-09-988-165B-7

16	61	56.5	60	16	US-10-390-472-16	Sequence 16, Appl
17	61	56.5	777	14	US-10-128-714-8221	Sequence 8221, Ap
18	60.5	56.0	309	10	US-09-820-843A-24	Sequence 24, Appl
19	60	55.6	61	12	US-10-424-599-185724	Sequence 185724,
20	60	55.6	67	12	US-10-393-449-54	Sequence 54, Appl
21	60	55.6	67	12	US-10-393-449-104	Sequence 104, Appl
22	60	55.6	67	14	US-10-177-725-54	Sequence 54, Appl
23	60	55.6	67	14	US-10-177-725-104	Sequence 104, Appl
24	60	55.6	75	12	US-10-393-449-53	Sequence 53, Appl
25	60	55.6	75	12	US-10-393-449-103	Sequence 103, Appl
26	60	55.6	75	14	US-10-177-725-53	Sequence 53, Appl
27	60	55.6	75	14	US-10-177-725-103	Sequence 103, Appl
28	60	55.6	83	12	US-10-393-449-52	Sequence 52, Appl
29	60	55.6	83	12	US-10-393-449-102	Sequence 102, Appl
30	60	55.6	83	14	US-10-177-725-52	Sequence 52, Appl
31	60	55.6	83	14	US-10-177-725-102	Sequence 102, Appl
32	60	55.6	91	12	US-10-393-449-51	Sequence 51, Appl
33	60	55.6	91	12	US-10-393-449-101	Sequence 101, Appl
34	60	55.6	91	14	US-10-177-725-51	Sequence 51, Appl
35	60	55.6	91	14	US-10-177-725-101	Sequence 101, Appl
36	60	55.6	104	12	US-10-393-449-47	Sequence 47, Appl
37	60	55.6	104	12	US-10-393-449-97	Sequence 97, Appl
38	60	55.6	104	14	US-10-177-725-47	Sequence 47, Appl
39	60	55.6	104	14	US-10-177-725-97	Sequence 97, Appl
40	60	55.6	105	12	US-10-393-449-43	Sequence 43, Appl
41	60	55.6	105	12	US-10-393-449-93	Sequence 93, Appl
42	60	55.6	105	14	US-10-177-725-43	Sequence 43, Appl
43	60	55.6	105	14	US-10-177-725-93	Sequence 93, Appl
44	60	55.6	106	12	US-10-393-449-44	Sequence 44, Appl
45	60	55.6	106	12	US-10-393-449-45	Sequence 45, Appl

ALIGNMENTS

RESULT 1

US-10-282-122A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Onisen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 68109
 ; LENGTH: 372
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas putida
 US-10-282-122A-68109

Query Match 65.7%; Score 71; DB 12; Length 372;
 Best Local Similarity 62.5%; Pred. No. 0.29;
 Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKAAXKRAAKAAKRAAKAAKRA 24
 Db 181 ABEAKKAAEDAKKAAAEAKKA 204

RESULT 2
 US-10-282-122A-66237
 ; Sequence 66237, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/267,636
 ; PRIOR FILING DATE: 2001-02-09
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; Remaining Prior Application data removed - See File Wrapper or PALM.
 ; NUMBER OF SEQ ID NOS: 78614
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 66237
 ; LENGTH: 347
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-10-282-122A-66237

Query Match 64.8%; Score 70; DB 12; Length 347;
 Best Local Similarity 62.5%; Pred. No. 0.36;

Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
 QY 1 AKAAXKRAAKAAKRAAKAAKRA 24
 Db 168 AEDAKKAAEDAKKAAAEAKKA 191

RESULT 3
 US-10-127-032-120
 ; Sequence 120, Application US/10127032
 ; Publication No. US20030113742A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Whiteley, Marvin
 ; APPLICANT: Bangera, M. Gita
 ; APPLICANT: Lory, Stephen
 ; APPLICANT: Greenberg, Everett Peter
 ; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
 ; TITLE OF INVENTION: BIOFILM FORMATION
 ; FILE REFERENCE: UIZ-070CP
 ; CURRENT APPLICATION NUMBER: US/10/127,032
 ; CURRENT FILING DATE: 2002-04-19
 ; PRIOR APPLICATION NUMBER: US 60/285,190
 ; PRIOR FILING DATE: 2001-04-20
 ; PRIOR APPLICATION NUMBER: US 60/344,142
 ; PRIOR FILING DATE: 2001-10-24
 ; NUMBER OF SEQ ID NOS: 170
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 120
 ; LENGTH: 347
 ; TYPE: PRT
 ; ORGANISM: Pseudomonas aeruginosa
 US-10-127-032-120

Query Match 64.8%; Score 70; DB 14; Length 347;
 Best Local Similarity 62.5%; Pred. No. 0.36;
 Matches 15; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKAAXKRAAKAAKRAAKAAKRA 24
 Db 168 AEDAKKAAEDAKKAAAEAKKA 191

RESULT 4
 US-10-282-122A-53742
 ; Sequence 53742, Application US/10282122A
 ; Publication No. US20040029129A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Wang, Liangsu
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Malone, Cheryl
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Kari
 ; APPLICANT: Zyskind, Judith
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John
 ; APPLICANT: Carr, Grant
 ; APPLICANT: Yamamoto, Robert
 ; APPLICANT: Forsyth, R.
 ; APPLICANT: Xu, H.
 ; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
 ; FILE REFERENCE: ELITRA.034A
 ; CURRENT APPLICATION NUMBER: US/10/282,122A
 ; CURRENT FILING DATE: 2003-02-20
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/230,335
 ; PRIOR FILING DATE: 2000-09-06
 ; PRIOR APPLICATION NUMBER: 60/230,347
 ; PRIOR FILING DATE: 2000-09-09


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 53742
; LENGTH: 526
; TYPE: PRT
; ORGANISM: Corynebacterium diptheriae
US-10-282-122A-53742

Query Match          64.8%; Score 70; DB 12; Length 526;
Best Local Similarity 73.9%; Pred. No. 0.54;
Matches 17; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy      2 KAAXKRAAKAAKRAAKAAKRA 24
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Db      90 KAAXKTAKTAKYAKKAAKTA 112

RESULT 5
US-10-282-122A-69962
; Sequence 69962, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69962
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; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match          63.0%; Score 68; DB 12; Length 336;
Best Local Similarity 62.5%; Pred. No. 0.6;
Matches 15; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy      1 AKAAXKRAAKAAKRAAKAAKRA 24
      ||||| ||||| ||||| |||||
Db      163 ABAKKAQAADEAKKAAEDAKKA 186

RESULT 6
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 55748
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Enterobacter cloacae
US-10-282-122A-55748

Query Match          63.0%; Score 68; DB 12; Length 428;
Best Local Similarity 66.7%; Pred. No. 0.77;
Matches 16; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy      1 AKAAXKRAAKAAKRAAKAAKRA 24
      ||||| ||||| ||||| |||||
Db      212 ABAKKAQAADEAKKAAEDAKKA 235
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US-10-282-122A-64817

Query Match 61.1%; Score 66; DB 12; Length 214;
 Best Local Similarity 66.7%; Pred. No. 0.69;
 Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAXKRAAKAAXKRA 24
 DB 108 ASAAKKVAKPAKATKAAXKAA 131

RESULT 10

US-10-229-567-27
 ; Sequence 27, Application US/10229567
 ; Publication No. US20030092080A1

GENERAL INFORMATION:

APPLICANT: Braun, Jonathan

Cohavy, Offer

TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
 ; Ulcerative Colitis, and Clinical Subtypes Thereof, Using
 ; Microbial UC PANCA antigens

NUMBER OF SEQUENCES: 41

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell & Flores LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/229,567

FILING DATE: 27-Aug-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/417,264

FILING DATE: <Unknown>

APPLICATION NUMBER: US/09/41,889

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-PM 3006

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 214 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: peptide

SEQUENCE DESCRIPTION: SEQ ID NO: 27:

US-10-229-567-27

Query Match 61.1%; Score 66; DB 14; Length 214;
 Best Local Similarity 66.7%; Pred. No. 0.68;
 Matches 16; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAXKRAAKAAXKRA 24
 DB 108 ASAAKKVAKPAKATKAAXKAA 131

RESULT 11

US-10-393-449-36

; Sequence 36, Application US/10393449
 ; Publication No. US20030224412A1

GENERAL INFORMATION:

; APPLICANT: Anderson, David
 ; APPLICANT: Bogenberger, Jakob M.

APPLICANT: Peele, Beau R.

; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
 ; FILE REFERENCE: RIGL-007CIP3

CURRENT APPLICATION NUMBER: US/10/393,449

CURRENT FILING DATE: 2003-03-18

PRIOR APPLICATION NUMBER: US 10/177,725

PRIOR FILING DATE: 2002-06-20

PRIOR APPLICATION NUMBER: US 09/415,765

PRIOR FILING DATE: 1999-10-08

PRIOR APPLICATION NUMBER: US 09/169,015

PRIOR FILING DATE: 1998-10-08

NUMBER OF SEQ ID NOS: 173

SOFTWARE: Patent in version 3.1

SEQ ID NO 36

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: synthetic

US-10-393-449-36

Query Match 57.4%; Score 62; DB 12; Length 104;
 Best Local Similarity 65.2%; Pred. No. 1;
 Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAXKRAAKAAXKRA 23

DB 82 AAAAAKRAAAAAAAAAAAAAAKKK 104

RESULT 12

US-10-393-449-86

Sequence 86, Application US/10393449

Publication No. US20030224412A1

GENERAL INFORMATION:

APPLICANT: Anderson, David

APPLICANT: Bogenberger, Jakob M.

APPLICANT: Peele, Beau R.

; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
 ; FILE REFERENCE: RIGL-007CIP3

CURRENT APPLICATION NUMBER: US/10/393,449

CURRENT FILING DATE: 2003-03-18

PRIOR APPLICATION NUMBER: US 10/177,725

PRIOR FILING DATE: 2002-06-20

PRIOR APPLICATION NUMBER: US 09/415,765

PRIOR FILING DATE: 1999-10-08

PRIOR APPLICATION NUMBER: US 09/169,015

PRIOR FILING DATE: 1998-10-08

NUMBER OF SEQ ID NOS: 173

SOFTWARE: Patent in version 3.1

SEQ ID NO 86

LENGTH: 104

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: synthetic

FEATURE:

NAME/KEY: MISC FEATURE

LOCATION: (37)-(68)

; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
 ; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid

US-10-393-449-86

Query Match 57.4%; Score 62; DB 12; Length 104;
 Best Local Similarity 65.2%; Pred. No. 1;
 Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAKRAAKAAXKRAAKAAXKRA 23

DB 82 AAAAAKRAAAAAAAAAAAAAAKKK 104

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RESULT 13
US-10-177-725-36
; Sequence 36, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 36
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
US-10-177-725-36

Query Match      57.4%; Score 62; DB 14; Length 104;
Best Local Similarity 65.2%; Pred. No. 1;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAKKRAAKAAGKGAAGAAGK 23
Db 82 AAAAAKKAAGAAAAAAAKKK 104

RESULT 14
US-10-177-725-86
; Sequence 86, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
; TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
; FILE REFERENCE: A-66900-4/RMS/AMS
; CURRENT APPLICATION NUMBER: US/10/177,725
; CURRENT FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 09/415,765
; PRIOR FILING DATE: 1999-10-08
; PRIOR APPLICATION NUMBER: US 09/169,015
; PRIOR FILING DATE: 1998-10-08
; NUMBER OF SEQ ID NOS: 173
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 86
; LENGTH: 104
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: synthetic
; NAME/KEY: MISC FEATURE
; LOCATION: (37)-(68)
; OTHER INFORMATION: "Xaa" at positions 37-39, 41-43, 45-46, 48-50, 52-53, 55-57, 59-6
; OTHER INFORMATION: 1, 63-64 and 66-68 can be any amino acid
US-10-177-725-86

Query Match      57.4%; Score 62; DB 14; Length 104;
Best Local Similarity 65.2%; Pred. No. 1;
Matches 15; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 AKAAKKRAAKAAGKGAAGAAGK 23
Db 82 AAAAAKKAAGAAAAAAAKKK 104
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Db 82 AAAAAKKAAGAAAAAAAKKK 104

RESULT 15
US-09-988-165B-7
; Sequence 7, Application US/09988165B
; Publication No. US20030144473A1
; GENERAL INFORMATION:
; APPLICANT: Syntibiotec Gesellschaft zur Erforschung und Entwicklung
; APPLICANT: auf dem Gebiet der Biotechnologie mbH
; TITLE OF INVENTION: Peptides for the Production of Preparations
; TITLE OF INVENTION: for the Diagnosis and Therapy of Autoimmune Diseases
; FILE REFERENCE: 3642
; CURRENT APPLICATION NUMBER: US/09/988,165B
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: US Serial Number 07/946,180
; PRIOR FILING DATE: 1992-09-16
; NUMBER OF SEQ ID NOS: 31
; SEQ ID NO 7
; LENGTH: 27
; TYPE: PRT
; ORGANISM: human
US-09-988-165B-7

Query Match      56.5%; Score 61; DB 10; Length 27;
Best Local Similarity 64.0%; Pred. No. 0.36;
Matches 16; Conservative 3; Mismatches 4; Indels 2; Gaps 1;

QY 2 KAAKRAA--KAAKRAAKAAGKRA 24
Db 3 KAAKRAAKRAAKRAAKRAAKKA 27

Search completed: August 17, 2004, 17:19:25
Job time : 37.8416 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 7.9604 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-6

Perfect score: 72

Sequence: 1 ARKKAARAAARAKA 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	52	72.2	60	1	US-08-346-849-16
2	52	72.2	60	2	US-08-293-284A-16
3	52	72.2	60	4	US-08-898-300-16
4	48	66.7	407	4	US-08-252-931A-29581
5	47	65.3	33	1	US-08-303-025-16
6	47	65.3	33	2	US-08-436-703B-4
7	47	65.3	180	6	5273901-7
8	47	65.3	180	6	5482709-6
9	46	63.9	29	1	US-08-152-488-12
10	46	63.9	29	1	US-08-303-025-14
11	46	63.9	29	1	US-08-677-304-12
12	46	63.9	29	2	US-08-436-703B-16
13	46	63.9	214	3	US-08-041-889-27
14	46	63.9	214	4	US-08-417-264-27
15	44	61.1	14	4	US-09-019-490-1
16	44	61.1	15	3	US-09-041-889-23
17	44	61.1	15	3	US-08-837-058-23
18	44	61.1	15	4	US-08-417-264-23
19	44	61.1	21	2	US-08-660-592-9
20	44	61.1	21	3	US-09-166-930A-7
21	44	61.1	28	1	US-08-303-025-12
22	44	61.1	28	2	US-08-436-703B-1
23	44	61.1	29	1	US-08-152-488-10
24	44	61.1	29	1	US-08-152-488-11
25	44	61.1	29	1	US-08-303-025-10
26	44	61.1	29	1	US-08-303-025-11
27	44	61.1	29	1	US-08-303-025-13

US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-346-849-16

ALIGNMENTS

RESULT 1
US-08-346-849-16
; Sequence 16, Application US/08346849
; Patent No. 5670483
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/346,849
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-346-849-16

Query Match 72.2%; Score 52; DB 1; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.53;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARKKAARKA 16
Db 11 AKKKAARKKAARKA 26

RESULT 2
US-08-293-284A-16
; Sequence 16, Application US/08293284A
; Patent No. 5955343
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: Dipersio, C. Michael
; APPLICANT: Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; NUMBER OF SEQUENCES: 64
; TITLE OF INVENTION: THEREFOR
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284A
; FILING DATE: 22-AUG-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-293-284A-16

Query Match 72.2%; Score 52; DB 2; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.53;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARKKAARKA 16
Db 11 AKKKAARKKAARKA 26

RESULT 3
US-08-898-300-16
; Sequence 16, Application US/08898300
; Patent No. 6548630
; GENERAL INFORMATION:
; APPLICANT: Zhang, Shuguang
; APPLICANT: Lockshin, Curtis
; APPLICANT: Rich, Alexander
; APPLICANT: Holmes, Todd
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY

; TITLE OF INVENTION: SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; TITLE OF INVENTION: THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/898,300
; FILING DATE: 22 JULY 1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/346,849
; FILING DATE: 30 NOVEMBER 1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28 DECEMBER 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008FB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781) 861-6240
; TELEFAX: (781) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-898-300-16

Query Match 72.2%; Score 52; DB 4; Length 60;
Best Local Similarity 75.0%; Pred. No. 0.53;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARKKAARKA 16
Db 11 AKKKAARKKAARKA 26

RESULT 4
US-09-252-991A-29581
; Sequence 29581, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 29581
; LENGTH: 407
; TYPE: PR1
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-29581

Query Match 66.7%; Score 48; DB 4; Length 407;
Best Local Similarity 66.7%; Pred. No. 11;

RESULT 6
US-08-436-703B-4

APPLICANT: JACOBSON, JAMES W.; STRAUSSBERG, ROBERT L.; WILSON,
SUSAN D.; POPE, SHARON H.; STRAUSSBERG, SUSAN L.; RUFF, MICHAEL D.;
AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.
TITLE OF INVENTION: GENETICALLY ENGINEERED COCCIDIOSIS
SPOROZOITE 21.5 KB ANTIGEN, AC-6B
NUMBER OF SEQUENCES: 11
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/581,693

APPLICANT: JACOBSON, JAMES W.; STRAUSSBERG, ROBERT L.; WILSON,
SUSAN D.; POPE, SHARON H.; STRAUSSBERG, SUSAN L.; RUFF, MICHAEL D.;
AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.
TITLE OF INVENTION: GENETICALLY ENGINEERED COCCIDIOSIS
SPOROZOITE 21.5 KB ANTIGEN, AC-6B
NUMBER OF SEQUENCES: 11
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/581,693

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; FILING DATE: 12-SEP-1990
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 215,162
; FILING DATE: 03-JUL-1988
; APPLICATION NUMBER: 746,520
; FILING DATE: 19-JUN-1985
; APPLICATION NUMBER: 627,811
; FILING DATE: 05-JUL-1984
; SEQ ID NO:7
; LENGTH:180
5273901-7

Query Match 65.3%; Score 47; DB 6; Length 180;
Best Local Similarity 68.8%; Pred. No. 7.1;
Matches 11; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARKKA 16
DB 153 AASTAARQA 168

RESULT 8
5482709-6
; Patent No. 5482709
; APPLICANT: JACOBSON, JAMES W.; STRAUSBERG, ROBERT L.; WILSON,
; SUSAN D.; POPE, SHARON H.; STRAUSBERG, SUSAN L.; RUFF, MICHAEL D.;
; AUGUSTINE, PATRICIA C.; DANFORTH, HARRY D.
; TITLE OF INVENTION: BIMERIA ANTIGENIC COMPOSITION WHICH
; ELICITS ANTIBODIES AGAINST AVIAN COCCIDIOSIS
; NUMBER OF SEQUENCES: 10
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/148,432
; FILING DATE: 08-NOV-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 581,693
; FILING DATE: 12-SEP-1990
; APPLICATION NUMBER: 215,162
; FILING DATE: 03-JUL-1989
; APPLICATION NUMBER: 746,520
; FILING DATE: 19-JUN-1985
; APPLICATION NUMBER: 627,811
; FILING DATE: 05-JUL-1984
; SEQ ID NO:6
; LENGTH: 180
5482709-6

Query Match 65.3%; Score 47; DB 6; Length 180;
Best Local Similarity 68.8%; Pred. No. 7.1;
Matches 11; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARKKA 16
DB 153 AASTAARQA 168

RESULT 9
US-08-152-488-12
; Sequence 12, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESS: Benita J, Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America

;
; FILING DATE: 08-SEP-1994
; APPLICATION NUMBER: US/08/303,025
; CURRENT APPLICATION DATA:
; SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
; OPERATING SYSTEM: MS-DOS v.6.22
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; ZIP: 48226-4415
; COUNTRY: United States of America
; STATE: Michigan
; CITY: Detroit
; ADDRESS: Benita J, Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CORRESPONDENCE ADDRESS:
; NUMBER OF SEQUENCES: 16
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; APPLICANT: Stanley, James C.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Wakefield, Thomas W.
; GENERAL INFORMATION:
; Patent No. 5614494
; Sequence 14, Application US/08303025
; US-08-303-025-14
; FILING DATE: 14-AUG-1993
; DOCUMENT NUMBER: PCT/US92/08069
; PUBLICATION INFORMATION:
; TITLE: N/A
; AUTHORS: N/A
; ORGANISM: N/A
; ORIGINAL SOURCE:
; MOLECULE TYPE: peptide
; TOPOLOGY: N/A
; STRANDEDNESS: N/A
; TYPE: amino acid
; LENGTH: 29 amino acids
; SEQUENCE CHARACTERISTICS:
; INFORMATION FOR SEQ ID NO: 12:
; TELEFAX: 908-276-5543
; TELEPHONE: 908-276-3344
; REFERENCE/DOCKET NUMBER: RM-7WG
; REGISTRATION NUMBER: 28,664
; NAME: Rohm, Benita J.
; ATTORNEY/AGENT INFORMATION:
; FILING DATE: 14-AUG-1993
; APPLICATION NUMBER: PCT/US92/08069
; PRIOR APPLICATION DATA:
; CLASSIFICATION: 514
; FILING DATE: 12-NOV-1993
; APPLICATION NUMBER: US/08/152,488
; CURRENT APPLICATION DATA:
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; OPERATING SYSTEM: MS-DOS
; MEDIUM TYPE: Floppy disk
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; FILING DATE: 07016-1811
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CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-14

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Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKKAARKKAARKKA 16
DB 2 KKKAARKKAARKKA 16

RESULT 11
US-08-677-304-12
Sequence 12, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664

REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: No. 5721212 Relevant
TOPOLOGY: No. 5721212 Relevant
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-677-304-12

Query Match 63.9%; Score 46; DB 1; Length 29;
Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKKAARKKAARKKA 16
DB 2 KKKAARKKAARKKA 16

RESULT 12
US-08-436-703B-16
Sequence 16, Application US/08436703B
Patent No. 5919761
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR
TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
TITLE OF INVENTION: WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 6601 Woodward Avenue
CITY: Suite 1525
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44Mb, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:

LENGTH: 29 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
US-08-436-703B-16

Query Match 63.9%; Score 46; DB 2; Length 29;
Best Local Similarity 66.7%; Pred. No. 1.8;
Matches 10; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 2 RKKAARAKKA 16
DB 2 KKAARAKKA 16

RESULT 13

US-09-041-889-27
Sequence 27, Application US/09041889
Patent No. 6033844

GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/041,889
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/837,058
FILING DATE: 11-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-041-889-27

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Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

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DB 121 KKAARAKKA 134

Query Match 63.9%; Score 46; DB 3; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARAKKA 16
DB 121 KKAARAKKA 134

RESULT 14

US-09-417-264-27
Sequence 27, Application US/09417264
Patent No. 6537768

GENERAL INFORMATION:
APPLICANT: Braun, Jonathan
APPLICANT: Cohavy, Offer
TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
Ulcerative Colitis, and Clinical Subtypes Thereof, Using
TITLE OF INVENTION: Microbial UC PANCA antigens
NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/041,889
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-417-264-27

Query Match 63.9%; Score 46; DB 4; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARAKKA 16
DB 121 KKAARAKKA 134

Query Match 63.9%; Score 46; DB 4; Length 214;
Best Local Similarity 71.4%; Pred. No. 1.1;
Matches 10; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 KKAARAKKA 16
DB 121 KKAARAKKA 134

RESULT 15

US-09-019-490-1
Sequence 1, Application US/09019490
Patent No. 6586334

GENERAL INFORMATION:
APPLICANT: McLaughlin, Mark L.
APPLICANT: Yokum, Thomas S.
APPLICANT: Enright, Frederick M.
APPLICANT: Elzer, Philip H.
APPLICANT: Hammer, Robert P.
TITLE OF INVENTION: Short Amphipathic Peptides with
Activity Against Bacteria and Intracellular Pathogens
TITLE OF INVENTION: Activity
TITLE OF INVENTION: Against Bacteria and Intracellular Pathogens
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: John H. Runnels
STREET: P. O. Box 2471

CITY: Baton Rouge
STATE: LA
COUNTRY: USA
ZIP: 70821-2471
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/019,490
FILING DATE: 06-FEB-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Runnels, John H.
REGISTRATION NUMBER: 33451
REFERENCE/DOCKET NUMBER: 9619
TELECOMMUNICATION INFORMATION:
TELEPHONE: (504) 387-3221
TELEFAX: (504) 346-8049
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
FEATURE:
OTHER INFORMATION: /note= "Amidated at C-terminus;"
PUBLICATION INFORMATION:
AUTHORS: Yokum, T. S.
AUTHORS: Elzer, Philip H.
AUTHORS: McLaughlin, Mark L.
TITLE: Antimicrobial alpha, alpha-dialkylated Amino
TITLE: Acid Rich Peptides with in-Vivo Activity against
TITLE: an Intracellular Pathogen
JOURNAL: Journal of Medicinal Chemistry
VOLUME: 39
ISSUE: 19
PAGES: 3603-3605
DATE: 13-Sept-1996
RELEVANT RESIDUES IN SEQ ID NO: 1: FROM 1 TO 14
US-09-019-490-1

Query Match 61.1%; Score 44; DB 4; Length 14;
Best Local Similarity 76.9%; Pred. No. 1.7;
Matches 10; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Db 2 AAKKAARAKKA 14

Search completed: August 17, 2004, 16:14:25
Job time : 7.9604 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 25.2277 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-6

Perfect score: 72

Sequence: 1 ARKKAARAKKA 16

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Minimum DB seq length: 0

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Maximum Match 100%

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Database : Published Applications AA:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	52	72.2	60	16	US-10-390-472-16 Sequence 16, Appl
3	52	72.2	258	14	US-10-156-761-9957 Sequence 9957, Ap
4	51	70.8	685	15	US-10-369-493-3684 Sequence 3684, Ap
5	50.5	70.1	18	12	US-10-169-613-35 Sequence 35, Appl
6	50.5	70.1	21	12	US-10-169-613-13 Sequence 13, Appl
7	50	69.4	369	9	US-09-738-626-4885 Sequence 4885, Ap
8	50	69.4	388	9	US-09-948-540-2 Sequence 2, Appl
9	49	68.1	372	12	US-10-282-122A-68109 Sequence 68109, A
10	48	66.7	336	12	US-10-282-122A-69962 Sequence 69962, A
11	48	66.7	347	12	US-10-282-122A-66237 Sequence 66237, A
12	48	66.7	347	14	US-10-127-032-120 Sequence 120, App
13	47.5	66.0	21	12	US-10-169-613-18 Sequence 18, Appl
14	47.5	66.0	21	12	US-10-169-613-22 Sequence 22, Appl
15	47	65.3	147	12	US-10-282-122A-61864 Sequence 61864, A

ALIGNMENTS

RESULT 1

US-10-424-599-219563

; Sequence 219563, Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa Thomas J

; APPLICANT: Kovalic David K

; APPLICANT: Zhou Yihua

; APPLICANT: Cao Yongwei

; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With

; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53223)B

; CURRENT APPLICATION NUMBER: US/10/424,599

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 285684

; SEQ ID NO 219563

; LENGTH: 400

; TYPE: PRT

; ORGANISM: Glycine max

; FEATURE:

; NAME/KEY: unsure

; LOCATION: (1)..(400)

; OTHER INFORMATION: unsure at all Xaa locations

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT_MRT3847_40293C.1.pep

US-10-424-599-219563

Query Match 73.6%; Score 53; DB 12; Length 400;

Best Local Similarity 73.3%; Pred. No. 7.4;

Matches 11; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

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Db 298 RKQAARAKKA 312

RESULT 2

US-10-390-472-16

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Sequence 64817, A
Sequence 27, Appl
Sequence 173357,
Sequence 8221, Ap
Sequence 8303, Ap
Sequence 10047, A
Sequence 202, App
Sequence 3, Appl
Sequence 1, Appl
Sequence 18, Appl
Sequence 7, Appl
Sequence 23, Appl
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Sequence 6, Appl
Sequence 1, Appl
Sequence 84, Appl
Sequence 131888,
Sequence 24, Appl
Sequence 78190, A
Sequence 55748, A

US-10-156-761-13875
US-10-437-963-152005
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US-10-282-122A-53050
US-10-282-122A-61991
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US-10-282-122A-64817
US-10-229-567-27
US-10-437-963-173357
US-10-128-714-8221
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US-10-156-761-10047
US-09-765-086-202
US-10-363-208-3
US-10-414-342-1
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US-10-290-385-7
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US-10-282-122A-63911
US-10-229-567-1
US-10-259-1948-84
US-10-437-963-131888
US-09-820-843A-24
US-10-282-122A-78190
US-10-282-122A-55748

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44 61.1 388 12
44 61.1 428 12

; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 35
; LENGTH: 18
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Artificial peptide of helical conformation
US-10-169-613-35

Query Match 70.1%; Score 50.5; DB 12; Length 18;
Best Local Similarity 87.5%; Pred. No. 0.77;
Matches 14; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 AAKKAARKKA 16
Db 2 AAKKAARKKA 16

RESULT 6
US-10-169-613-13
; Sequence 13, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkai, Oystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Soltstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 13
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: antimicrobial peptide
US-10-169-613-13

Query Match 70.1%; Score 50.5; DB 12; Length 21;
Best Local Similarity 87.5%; Pred. No. 0.89;
Matches 14; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 1 AAKKAARKKA 16
Db 2 AAKKAARKKA 16

RESULT 7
US-09-738-626-4885
; Sequence 4885, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIO
; APPLICANT: OCHIAI, KEIKO

; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 4885
; LENGTH: 369
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-4885

Query Match 69.4%; Score 50; DB 9; Length 369;
Best Local Similarity 75.0%; Pred. No. 18;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AAKKAARKKA 16
Db 340 AAKKAARKKA 355

RESULT 8
US-09-938-540-2
; Sequence 2, Application US/09938540
; Patent No. US20020151001A1
; GENERAL INFORMATION:
; APPLICANT: Degussa AG
; TITLE OF INVENTION: New nucleotide sequences which code for the ccpA gene
; FILE REFERENCE: 000059 BT
; CURRENT APPLICATION NUMBER: US/09/938,540
; CURRENT FILING DATE: 2001-08-27
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 388
; TYPE: PRT
; ORGANISM: Corynebacterium glutamicum
US-09-938-540-2

Query Match 69.4%; Score 50; DB 9; Length 388;
Best Local Similarity 75.0%; Pred. No. 19;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 AAKKAARKKA 16
Db 359 AAKKAARKKA 374

RESULT 9
US-10-282-122A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant

```

; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match      66.7%; Score 48; DB 12; Length 336;
Best Local Similarity 56.7%; Pred. No. 31;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 ARKYAAKAAKKAAK 15
        |:|::||::|:|::|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:~
Db       174 AKKAADAKKAAAE 188

RESULT 11
US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INVENTION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: EITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 79614
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 66237
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-66237

Query Match      66.7%; Score 48; DB 12; Length 347;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 ARKKAAXAARKKAAX 15
       :|:|:|:|:|:|:|:|:|:
DB      163 AKKKAEDAKKKAEE 177

RESULT 12
US-10-127-032-120
; Sequence 120, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Bangera, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-120

Query Match      66.7%; Score 48; DB 14; Length 347;
Best Local Similarity 66.7%; Pred. No. 32;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY      1 ARKKAAXAARKKAAX 15
       :|:|:|:|:|:|:|:|:|:
DB      163 AKKKAEDAKKKAEE 177

RESULT 13
US-10-169-613-18
; Sequence 18, Application US/10169613
; Publication No. US20030086959A1
; GENERAL INFORMATION:
; APPLICANT: Redkdal, Oystein
; APPLICANT: Svendsen, John
; APPLICANT: Wikman, Mari
; APPLICANT: Solstad, Torese
; APPLICANT: Yang, Nannan
; TITLE OF INVENTION: Methods of peptide preparation
; FILE REFERENCE: 1181-258
; CURRENT APPLICATION NUMBER: US/10/169,613
; CURRENT FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: PCT/GB00/03378
; PRIOR FILING DATE: 2001-08-31
; PRIOR APPLICATION NUMBER: GB 0005702.6
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: PCT/GB99/02851
; PRIOR FILING DATE: 1999-08-31
; NUMBER OF SEQ ID NOS: 40

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; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 61864
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Mycobacterium avium
US-10-282-122A-61864

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Query Match      65.3%; Score 47; DB 12; Length 147;
Best Local Similarity 73.3%; Pred.No. 19;
Matches 11; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY      1 ARKKAARKKAAK 15
      |::|::|::|::|
Db      62 APEKAEKAKKAAK 76

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Search completed: August 17, 2004, 17:19:15
 Job time : 26.2277 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 15:50:03 ; Search time 8.95545 Seconds
(without alignments)
103.766 Million cell updates/sec

Title: US-09-496-391-7

Perfect score: 81
Sequence: 1 AKXARAKKXARAKKARA 18

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep.*
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5: /cgn2_6/ptodata/2/iaa/PTCTUS_COMB.pep.*
6: /cgn2_6/ptodata/2/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	58	71.6	223	US-09-095-855-201	Sequence 201, Appl
2	58	71.6	223	US-09-205-426-201	Sequence 201, Appl
3	53	65.4	218	US-09-041-889-4	Sequence 4, Appli
4	53	65.4	218	US-08-837-058-4	Sequence 4, Appli
5	53	65.4	218	US-09-417-264-4	Sequence 4, Appli
6	51	63.0	469	US-09-489-039A-13565	Sequence 23, Appl
7	50	61.7	346	US-09-352-990-23	Sequence 6, Appli
8	49	60.5	26	US-08-894-339-6	Sequence 6, Appli
9	49	60.5	26	US-09-308-044-6	Sequence 7, Appli
10	48	59.3	109	US-09-405-743A-7	Sequence 150, Ap
11	47.5	58.6	64	US-09-732-210-1550	Sequence 12, Appl
12	47	58.0	28	US-08-303-025-12	Sequence 1, Appli
13	47	58.0	28	US-08-436-703B-1	Sequence 10, Appl
14	47	58.0	29	US-08-152-488-11	Sequence 11, Appl
15	47	58.0	29	US-08-152-488-11	Sequence 12, Appl
16	47	58.0	29	US-08-152-488-12	Sequence 10, Appl
17	47	58.0	29	US-08-303-025-10	Sequence 11, Appl
18	47	58.0	29	US-08-303-025-11	Sequence 13, Appl
19	47	58.0	29	US-08-303-025-13	Sequence 14, Appl
20	47	58.0	29	US-08-303-025-14	Sequence 10, Appl
21	47	58.0	29	US-08-303-025-10	Sequence 11, Appl
22	47	58.0	29	US-08-677-304-11	Sequence 12, Appl
23	47	58.0	29	US-08-677-304-12	Sequence 3, Appli
24	47	58.0	29	US-08-436-703B-3	Sequence 15, Appl
25	47	58.0	29	US-08-436-703B-15	Sequence 16, Appl
26	47	58.0	29	US-08-436-703B-16	Sequence 13, Appl
27	47	58.0	32	US-08-152-488-13	

Sequence 15, Appl
Sequence 13, Appl
Sequence 2, Appli
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Sequence 27, Appl
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Sequence 8, Appli
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1 US-08-303-025-15
2 US-08-677-304-13
3 US-08-436-703B-2
4 US-08-303-025-16
5 US-08-436-703B-4
6 US-09-041-889-27
7 US-09-417-264-27
8 US-09-252-991A-29581
9 US-08-762-106-8
10 US-08-745-404-2
11 US-09-320-774-8
12 US-08-762-106-9
13 US-09-320-774-9
14 US-08-745-404-3
15 US-08-929-329-5
16 1507 3 US-08-929-329-5
17 66 4 US-09-405-743A-4
18 44.5 54.9
19 44 44
20 44 54.3
21 77 4 US-09-405-743A-5

ALIGNMENTS

RESULT 1
US-09-095-855-201
; Sequence 201, Application US/09095855
; Patent No. 6160093
; GENERAL INFORMATION:
; APPLICANT: Tan, Paul
; APPLICANT: Visser, Elizabeth
; APPLICANT: Skinner, Margot
; APPLICANT: Prestidge, Ross
; TITLE OF INVENTION: Compounds and Methods for
; TITLE OF INVENTION: Treatment and Diagnosis of Mycobacterial Infections
; NUMBER OF SEQUENCES: 208
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Law Offices of Ann W. Speckman
; STREET: 2601 Elliott Avenue, Suite 4185
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98121
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/095,855
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: 08/705,347
; APPLICATION NUMBER: 08/705,347
; FILING DATE: 29-AUG-1996
; APPLICATION NUMBER: 08/873,970
; FILING DATE: 12-JUN-1997
; APPLICATION NUMBER: 08/997,362
; FILING DATE: 23-DEC-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Sleath, Janet
; REGISTRATION NUMBER: 37,007
; REFERENCE/DOCKET NUMBER: 11000.1002c3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-269-0565
; TELEFAX: 206-269-0563
; TELEX:
; INFORMATION FOR SEQ ID NO: 201:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 223 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein

US-09-095-855-201

Query Match 71.6%; Score 58; DB 3; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.42;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
||||| ||||| ||||| |||||
DB 147 AKKATAAKKAAAPAKKATA 164

RESULT 2

US-09-205-426-201
; Sequence 201, Application US/09205426
; Patent No. 6406704
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Compounds and Methods for Treatment and
; TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
; FILE REFERENCE: 11000.1002c4
; CURRENT APPLICATION NUMBER: US/09/205,426
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: 09/095,855
; EARLIER FILING DATE: 1998-06-11
; EARLIER APPLICATION NUMBER: 08/997,362
; EARLIER FILING DATE: 1997-12-23
; EARLIER APPLICATION NUMBER: 08/873,970
; EARLIER FILING DATE: 1997-06-12
; EARLIER APPLICATION NUMBER: 08/705,347
; EARLIER FILING DATE: 1996-08-29
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 201
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-09-205-426-201

Query Match 71.6%; Score 58; DB 4; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.42;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18
||||| ||||| ||||| |||||
DB 147 AKKATAAKKAAAPAKKATA 164

RESULT 3

US-09-041-889-4
; Sequence 4, Application US/09041889
; Patent No. 6033864
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Offer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC panCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/041,889

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA: US 08/837,058

APPLICATION NUMBER: 11-APR-1997

FILING DATE: 11-APR-1997

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-PM 3006

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 218 amino acids

TYPE: amino acid

TOPOLOGY: linear

FEATURE:

NAME/KEY: Peptide

LOCATION: 1..218

OTHER INFORMATION: /note= "product = Human Histone

OTHER INFORMATION: H1-S-4"

US-09-041-889-4

Query Match 65.4%; Score 53; DB 3; Length 218;

Best Local Similarity 61.1%; Pred. No. 1.9;

Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAKAAKAAKAAKARA 18

||||| ||||| ||||| |||||

DB 166 AKKAKSPKKAAPKPKKA 183

RESULT 4

US-08-837-058-4

; Sequence 4, Application US/08837058

; Patent No. 6074835

; GENERAL INFORMATION:

; APPLICANT: Braun, Jonathan R.

; APPLICANT: Targan, Stephan R.

; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of

; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using

; TITLE OF INVENTION: Histone H1

; NUMBER OF SEQUENCES: 26

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Campbell & Flores LLP

; STREET: 4370 La Jolla Village Drive, Suite 700

; CITY: San Diego

; STATE: California

; COUNTRY: USA

; ZIP: 92122

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/837,058

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Campbell, Cathryn A.

; REGISTRATION NUMBER: 31,815

; REFERENCE/DOCKET NUMBER: P-PM 2438

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (619) 535-9001

; TELEFAX: (619) 535-8949

; INFORMATION FOR SEQ ID NO: 4:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 218 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

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;
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION: /note= "product = Human Histone
; OTHER INFORMATION: HI-S-4"
US-08-837-058-4

Query Match 65.4%; Score 53; DB 3; Length 218;
Best Local Similarity 61.1%; Pred. No. 1.9;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAAKKAAKAAKARA 18
Db 166 AKKAKSPKAAKAAKPKKA 183

RESULT 5
US-09-417-264-4
; Sequence 4, Application US/09417264
; Patent No. 6537768
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Ofer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; TITLE OF INVENTION: Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; TITLE OF INVENTION: Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/041,889
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-PM 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 218 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1..218
; OTHER INFORMATION: /note= "product = Human Histone
; OTHER INFORMATION: HI-S-4"
US-09-417-264-4

Query Match 65.4%; Score 53; DB 4; Length 218;
Best Local Similarity 61.1%; Pred. No. 1.9;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAAKKAAKAAKARA 18
Db 166 AKKAKSPKAAKAAKPKKA 183
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```

RESULT 6
US-09-489-039A-13565
; Sequence 13565, Application US/09489039A
; Patent No. 6610836
; GENERAL INFORMATION:
; APPLICANT: Gary Bretton et. al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLBBSIELLA
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 2709-2004001
; CURRENT APPLICATION NUMBER: US/09/489,039A
; CURRENT FILING DATE: 2000-01-27
; PRIOR APPLICATION NUMBER: US 60/117,747
; PRIOR FILING DATE: 1999-01-29
; NUMBER OF SEQ ID NOS: 14342
; SEQ ID NO 13565
; LENGTH: 469
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-09-489-039A-13565

Query Match 63.0%; Score 51; DB 4; Length 469;
Best Local Similarity 66.7%; Pred. No. 6.7;
Matches 12; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAAKKAAKAAKARA 18
Db 299 AKKAAAKKAAKAAKAAA 316

RESULT 7
US-09-352-990-23
; Sequence 23, Application US/09352990
; Patent No. 6255090
; GENERAL INFORMATION:
; APPLICANT: Famodu, Layo O.
; APPLICANT: Orozco, Buddy
; APPLICANT: Rafalski, Antoni
; TITLE OF INVENTION: Plant Aminoacyl-tRNA Synthetase
; FILE REFERENCE: BB-1191
; CURRENT APPLICATION NUMBER: US/09/352,990
; CURRENT FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,866
; EARLIER FILING DATE: July 15, 1998
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 23
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Drosophila melanogaster
US-09-352-990-23

Query Match 61.7%; Score 50; DB 3; Length 346;
Best Local Similarity 71.4%; Pred. No. 6.9;
Matches 10; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 5 RAAKAAKAAKAAKARA 18
Db 12 KGAKKAAKAAKARA 25

RESULT 8
US-08-894-339-6
; Sequence 6, Application US/08894339
; Patent No. 5945400
; GENERAL INFORMATION:
; APPLICANT: SHERMAN, Daniel
; APPLICANT: BYK, Gerardo
; APPLICANT: SCHWARTZ, Bertrand
; TITLE OF INVENTION: NUCLEIC ACID-CONTAINING COMPOSITION,
; TITLE OF INVENTION: PREPARATION AND USE THEREOF
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
```

```

; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, Mailstop 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/894,339
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: FR 95/01865
; FILING DATE: 17-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/FR96/00248
; FILING DATE: 15-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Savitzky Esq., Martin F.
; REGISTRATION NUMBER: 29,699
; REFERENCE/DOCKET NUMBER: ST95012-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3816
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-894-339-6

Query Match 60.5%; Score 49; DB 2; Length 26;
Best Local Similarity 58.8%; Pred. No. 0.98;
Matches 10; Conservative 4; Mismatches 3; Indels 3; Gaps 0;

QY 2 KKAARAAKAKAAKARA 18
Db 1 KKAASPKKAAKPKKA 17
|||:|||||:|

RESULT 9
US-09-306-044-6
; Sequence 6, Application US/09306044
; Patent No. 6200956
; GENERAL INFORMATION:
; APPLICANT: SHERMAN, Daniel
; APPLICANT: BYK, Gerardo
; APPLICANT: SCHWARTZ, Bertrand
; TITLE OF INVENTION: NUCLEIC ACID-CONTAINING COMPOSITION,
; PREPARATION AND USE THEREOF
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rhone-Poulenc Rorer Inc.
; STREET: 500 Arcola Road, Mailstop 3C43
; CITY: Collegeville
; STATE: PA
; COUNTRY: USA
; ZIP: 19426
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/306,044
; FILING DATE:
; CLASSIFICATION:

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/894,339
; FILING DATE:
; PRIOR APPLICATION DATA: WO PCT/FR96/00248
; APPLICATION NUMBER:
; FILING DATE: 15-FEB-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Savitzky Esq., Martin F.
; REGISTRATION NUMBER: 29,699
; REFERENCE/DOCKET NUMBER: ST95012-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 454-3816
; TELEFAX: (610) 454-3808
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-306-044-6

Query Match 60.5%; Score 49; DB 3; Length 26;
Best Local Similarity 58.8%; Pred. No. 0.98;
Matches 10; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

QY 2 KKAARAAKAKAAKARA 18
Db 1 KKAASPKKAAKPKKA 17
|||:|||||:|

RESULT 10
US-09-405-743A-7
; Sequence 7, Application US/09405743A
; Patent No. 6514938
; GENERAL INFORMATION:
; APPLICANT: Yeda Research and Development Co., Ltd.
; TITLE OF INVENTION: GLATIRAMER ACETATE MOLECULAR WEIGHT MARKERS
; FILE REFERENCE: 68807-A
; CURRENT APPLICATION NUMBER: US/09/405,743A
; CURRENT FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 109
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
; US-09-405-743A-7

Query Match 59.3%; Score 48; DB 4; Length 109;
Best Local Similarity 65.0%; Pred. No. 4.6;
Matches 13; Conservative 3; Mismatches 2; Indels 2; Gaps 1;

QY 1 AKKARAA--KKAARAAKAKARA 18
Db 13 AKKAAKAAKEKAYAKKEAKA 32
|||:|||||:|

RESULT 11
US-09-732-210-1550
; Sequence 1550, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B

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; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1550
; LENGTH: 64
; TYPE: PRT
; ORGANISM: Myxococcus xanthus
US-09-732-210-1550

Query Match 58.6%; Score 47.5; DB 4; Length 64;
Best Local Similarity 81.2%; Pred. No. 3.4;
Matches 13; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

QY 2 KKAAKKAARAAKKAAR 17
DB 47 KKAAKKAARAAKKAAR 61

RESULT 12
US-08-303-025-12
; Sequence 12, Application US/08303025
; Patent No. 5614434
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS V.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 7MH-060548-00231
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A

; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-303-025-12

Query Match 58.0%; Score 47; DB 1; Length 28;
Best Local Similarity 73.7%; Pred. No. 1.9;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 AKKA-RAAKKA-RAAKKAR 17
DB 2 AKKA-RAAKKA-RAAKKAR 20

RESULT 13
US-08-436-703B-1
; Sequence 1, Application US/08436703B
; Patent No. 5919761
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR
; TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
; TITLE OF INVENTION: WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 6601 Woodward Avenue
; CITY: Suite 1525
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6;
SOFTWARE: ASCII (DOS)Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,703B
FILING DATE: 08-MAY-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: N/A
FILING DATE: N/A
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: 7WK-060548-00233
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-965-1976
TELEFAX: 313-965-1951
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A

US-08-436-703B-1

Query Match 58.0%; Score 47; DB 2; Length 28;
Best Local Similarity 73.7%; Pred. No. 1.9;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY 1 AKKA-RAAKKA-RAAKKAR 17

```
Db      :||||:||||:||||:
          2 AKKAKAAKAAKAAKAAK 20

RESULT 14
US-08-152-488-10
; Sequence 10, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-152-488-10

Query Match 58.0%; Score 47; DB 1; Length 29;
Best Local Similarity 73.7%; Pred. No. 2;
Matches 14; Conservative 0; Indels 0; Gaps 2;

QY      1 AKKA-RAAKKA-RAAKKAR 17
Db      :||||:||||:||||:
          6 AKKAKAAKAAKAAKAAK 24

RESULT 15
US-08-152-488-11
; Sequence 11, Application US/08152488
; Patent No. 5534619
; GENERAL INFORMATION:
```

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; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; APPLICANT: Stanley, James C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 512 Springfield Avenue
; CITY: Cranford
; STATE: New Jersey
; COUNTRY: United States of America
; ZIP: 07016-1811
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/152,488
; FILING DATE: 12-NOV-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 29 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
US-08-152-488-11

Query Match 58.0%; Score 47; DB 1; Length 29;
Best Local Similarity 73.7%; Pred. No. 2;
Matches 14; Conservative 3; Mismatches 0; Indels 2; Gaps 2;

QY      1 AKKA-RAAKKA-RAAKKAR 17
Db      :||||:||||:||||:
          6 AKKAKAAKAAKAAKAAK 24

Search completed: August 17, 2004, 16:14:26
Job time : 9.95545 secs
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; Publication No. US20030147861A1

GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; APPLICANT: Abernethy, Nevin
; TITLE OF INVENTION: Compounds and Methods for the Modulation
; TITLE OF INVENTION: of Immune Responses
; FILE REFERENCE: 11000.1063U
; CURRENT APPLICATION NUMBER: US/10/205,979
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/308,446
; PRIOR FILING DATE: 2001-07-26
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 52
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Mycobacterium vaccae
US-10-205-979-52

Query Match 71.6%; Score 58; DB 14; Length 223;
Best Local Similarity 77.8%; Pred. No. 0.8;
Matches 14; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 1 AKKAAKAAKAAKAAKARA 18
Db 147 AKKATAAKKAAKAAKATA 164

RESULT 3
US-09-771-161A-127
; Sequence 127, Application US/09771161A
; Patent No. US2002011081A1
; GENERAL INFORMATION:
; APPLICANT: LEVINE, et al.
; TITLE OF INVENTION: VARIANTS OF PROTEIN KINASES
; FILE REFERENCE: 802620-2005.1
; CURRENT APPLICATION NUMBER: US/09/771,161A
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 09/724,676
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 136776
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 135619
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 273
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 127
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-771-161A-127

Query Match 66.7%; Score 54; DB 9; Length 243;
Best Local Similarity 70.6%; Pred. No. 3.2;
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

Qy 2 KKAARAAKAAKAAKARA 18
Db 9 KKAARAAKAAKAAKARA 25

RESULT 4
US-09-888-721-2
; Sequence 2, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID

; TITLE OF INVENTION: DELIVERY
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-2

Query Match 65.4%; Score 53; DB 9; Length 26;
Best Local Similarity 61.1%; Pred. No. 0.47;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKYARAARKAAKAAKARA 18
Db 1 AKKAKSPKAAKAAKPKKA 18

RESULT 5
US-09-888-721-32
; Sequence 32, Application US/09888721
; Patent No. US20020132990A1
; GENERAL INFORMATION:
; APPLICANT: Huston, James S.
; APPLICANT: Wils, Pierre
; APPLICANT: Zhu, Quan
; APPLICANT: Laurent, Olivier
; APPLICANT: Marasco, Wayne A.
; APPLICANT: Scherman, Daniel
; TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
; FILE REFERENCE: 23611-A USA
; CURRENT APPLICATION NUMBER: US/09/888,721
; CURRENT FILING DATE: 2001-06-25
; PRIOR APPLICATION NUMBER: 60/213,653
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 45
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 32
; LENGTH: 26
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-888-721-32

Query Match 65.4%; Score 53; DB 9; Length 26;
Best Local Similarity 61.1%; Pred. No. 0.47;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKYARAARKAAKAAKARA 18
Db 1 AKKAKSPKAAKAAKPKKA 18

RESULT 6
US-10-240-430-8
; Sequence 8, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240,430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02

; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-8

Query Match 65.4%; Score 53; DB 16; Length 55;
Best Local Similarity 61.1%; Pred. No. 1;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 12 AKKAKSPKKAARAAKPKKA 29

RESULT 7
US-10-240-430-7
; Sequence 7, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240.430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-7

Query Match 65.4%; Score 53; DB 16; Length 66;
Best Local Similarity 61.1%; Pred. No. 1.2;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 12 AKKAKSPKKAARAAKPKKA 29

RESULT 8
US-10-262-209-2
; Sequence 2, Application US/10262209
; Publication No. US20030125239A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Compositions for Drug Delivery
; FILE REFERENCE: GJE-6703
; CURRENT APPLICATION NUMBER: US/10/262.209
; CURRENT FILING DATE: 2002-09-30
; PRIOR APPLICATION NUMBER: UK 0218324.2
; PRIOR FILING DATE: 2002-08-07
; PRIOR APPLICATION NUMBER: PCT/GB01/01699
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 2

; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-209-2

Query Match 65.4%; Score 53; DB 14; Length 130;
Best Local Similarity 61.1%; Pred. No. 2.3;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 76 AKKAKSPKKAARAAKPKKA 93

RESULT 9
US-10-240-430-5
; Sequence 5, Application US/10240430
; Publication No. US20040110928A1
; GENERAL INFORMATION:
; APPLICANT: Crisanti, Andrea
; APPLICANT: Essegghir, Selma
; TITLE OF INVENTION: Peptide Conjugates for Drug Delivery
; FILE REFERENCE: GJE-6402
; CURRENT APPLICATION NUMBER: US/10/240.430
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: PCT/GB01/01697
; PRIOR FILING DATE: 2001-04-12
; PRIOR APPLICATION NUMBER: UK 0102667.3
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: UK 0009080.3
; PRIOR FILING DATE: 2000-04-12
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-240-430-5

Query Match 65.4%; Score 53; DB 16; Length 130;
Best Local Similarity 61.1%; Pred. No. 2.3;
Matches 11; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

Qy 1 AKKARAAKKAARAAKARA 18
Db 76 AKKAKSPKKAARAAKPKKA 93

RESULT 10
US-10-229-567-4
; Sequence 4, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braun, Jonathan
; APPLICANT: Cohavy, Ofer
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25

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; APPLICANT: OMURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; CURRENT FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 12370
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-12370

Query Match      63.0%; Score 51; DB 14; Length 272;
Best Local Similarity 64.7%; Pred. No. 9.3;
Matches 11; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy      2 KKAAAKKAAKAAKARA 18
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Db     106 KKAATKKAARARAAA 122

RESULT 15
US-10-282-122A-59321
; Sequence 59321, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 59321
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Klebsiella pneumoniae
US-10-282-122A-59321

Query Match      61.7%; Score 50; DB 12; Length 323;
Best Local Similarity 75.0%; Pred. No. 15;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy      1 AKKAAAKKAAKAAKKA 16
      |||||
Db     179 AAKAAAKKAAKAAKEA 194

Search completed: August 17, 2004, 17:19:16
Job time : 29.3812 secs
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; ADDRESSEE: Campbell & Flores LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,264
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/041,889
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-M 3006
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 27:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 214 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-417-264-27

Query Match          55.9%; Score 80.5; DB 4; Length 214;
Best Local Similarity 53.6%; Pred No. 0.0098;
Matches 21; Conservative 2; Mismatches 9; Indels

QY      1 ARKKAARAKKAARAKAARKKAARA-ARKKAARA 32
Db      111 AKKVAKKAPAKKATKAARKKAATKAPARKAAATRA 143

RESULT 7
US-08-303-025-16
; Sequence 16, Application US/08303025
; Patent No. 5614494
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
; TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J, Rohm, Esq.
; STREET: 150 West Jefferson, Suite 2500
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226-4415
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS V.6.22
; SOFTWARE: Wordperfect 6.1; ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/303,025
; FILING DATE: 08-SEPT-1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06829
; FILING DATE: 14-AUG-1992
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; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 33 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; US-08-303-025-16

Query Match 55.6%; Score 80; DB 1; Length 33;
Best Local Similarity 65.6%; Pred. No. 0.002;
Matches 21; Conservative 2; Mismatches 7; Indels 2; Gaps 1;

QY 1 ARKKAARKKAARKKAARKKAARKKAARKKA 32
Db 2 AAKKAARKKAARKKA--KKAARKKAARKKA 31

RESULT 8
US-08-436-703B-4
; Sequence 4, Application US/08436703B
; Patent No. 5919761
; GENERAL INFORMATION:
; APPLICANT: Wakefield, Thomas W.
; APPLICANT: Andrews, Philip C.
; TITLE OF INVENTION: NOVEL PEPTIDES FOR
; TITLE OF INVENTION: NOVEL PEPTIDES FOR
; TITLE OF INVENTION: HEPARIN AND LOW MOLECULAR
; TITLE OF INVENTION: WEIGHT HEPARIN
; TITLE OF INVENTION: ANTICOAGULATION REVERSAL
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Benita J. Rohm, Esq.
; STREET: 6601 Woodward Avenue
; STREET: Suite 1525
; CITY: Detroit
; STATE: Michigan
; COUNTRY: United States of America
; ZIP: 48226
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk 1.44MB, 3.5"
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: WordPerfect 6;
; SOFTWARE: ASCII (DOS)Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/436,703B
; FILING DATE: 08-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: N/A
; FILING DATE: N/A
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: 7WH-060548-00233
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 313-965-1976

; APPLICATION NUMBER: US 08/152,488
; FILING DATE: 12-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Rohm, Benita J.
; REFERENCE/DOCKET NUMBER: 7WH-060548-00231
; TELEPHONE: 313-496-7622
; TELEFAX: 313-496-8454
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 33 amino acids
; TYPE: amino acid
; STRANDEDNESS: N/A
; TOPOLOGY: N/A
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; US-08-436-703B-4

Query Match 55.6%; Score 80; DB 2; Length 33;
Best Local Similarity 65.6%; Pred. No. 0.002;
Matches 21; Conservative 2; Mismatches 7; Indels 2; Gaps 1;

QY 1 ARKKAARKKAARKKAARKKAARKKAARKKA 32
Db 2 AAKKAARKKAARKKA--KKAARKKAARKKA 31

RESULT 9
US-08-995-172-14
; Sequence 14, Application US/08995172B
; Patent No. 6218112
; GENERAL INFORMATION:
; APPLICANT: Thatcher, David R
; APPLICANT: Wilks, Paula E
; TITLE OF INVENTION: Optimization of Gene Delivery and Gene Delivery Systems
; FILE REFERENCE: CAC00026
; CURRENT APPLICATION NUMBER: US/08/995,172B
; CURRENT FILING DATE: 1997-12-22
; EARLIER APPLICATION NUMBER: 60/033,908
; EARLIER FILING DATE: 1996-12-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 14
; LENGTH: 49
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (49)
; OTHER INFORMATION: Xaa is Cys with Acn sidechain
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Peptide
; US-08-995-172-14

Query Match 54.2%; Score 78; DB 3; Length 49;
Best Local Similarity 58.1%; Pred. No. 0.0049;
Matches 18; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

QY 1 ARKKAARKKAARKKAARKKAARKKAARKKA 31
Db 7 AKKPAARKSPKAKKPAKSPKAKKPAK 37

RESULT 10
US-08-839-624-26
; Sequence 26, Application US/08839624
; Patent No. 6225045
; GENERAL INFORMATION:
; APPLICANT: Karn et al.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATING
; TITLE OF INVENTION: HIV INFECTION
; NUMBER OF SEQUENCES: 43
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Inc.
; STREET: One Financial Center
; CITY: Boston
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STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS) Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/152.488
FILING DATE: 12-NOV-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REGISTRATION NUMBER: 28,664
REFERENCE/DOCKET NUMBER: RM-7WG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-276-3344
TELEFAX: 908-276-5543
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
PUBLICATION INFORMATION:
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-152-488-13

Query Match 53.5%; Score 77; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 0.0043;
Matches 20; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 32
DB 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 30

RESULT 14
US-08-303-025-15
Sequence 15, Application US/08303025
Patent No. 5614494
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 150 West Jefferson, Suite 2500
CITY: Detroit
STATE: Michigan
COUNTRY: United States of America
ZIP: 48226-4415
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy diskette 3.5" 1.44Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS v.6.22
SOFTWARE: WordPerfect 6.1; ASCII (DOS) Text
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/303,025
FILING DATE: 08-SEPT-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06829
FILING DATE: 14-AUG-1992
APPLICATION NUMBER: US 08/152,488
FILING DATE: 12-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Rohm, Benita J.
REFERENCE/DOCKET NUMBER: 7WH-060548-00231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 313-496-7622
TELEFAX: 313-496-8454
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 amino acids
TYPE: amino acid
STRANDEDNESS: N/A
TOPOLOGY: N/A
MOLECULE TYPE: peptide
ORIGINAL SOURCE:
ORGANISM: N/A
PUBLICATION INFORMATION:
AUTHORS: N/A
TITLE: N/A
DOCUMENT NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
US-08-303-025-15

Query Match 53.5%; Score 77; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 0.0043;
Matches 20; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

QY 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 32
DB 3 KKAARKKAAKAAKAAKAAKAAKAAKAAKAA 30

RESULT 15
US-08-677-304-13
Sequence 13, Application US/08677304
Patent No. 5721212
GENERAL INFORMATION:
APPLICANT: Wakefield, Thomas W.
APPLICANT: Andrews, Philip C.
APPLICANT: Stanley, James C.
TITLE OF INVENTION: NOVEL PEPTIDES FOR HEPARIN AND
TITLE OF INVENTION: LOW MOLECULAR WEIGHT HEPARIN
TITLE OF INVENTION: ANTICOAGULATION REVERSAL
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benita J. Rohm, Esq.
STREET: 512 Springfield Avenue
CITY: Cranford
STATE: New Jersey
COUNTRY: United States of America
ZIP: 07016-1811
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: WordPerfect 6; ASCII (DOS) Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/677,304
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/152,488
FILING DATE: 12-NOV-1993
APPLICATION NUMBER: PCT/US92/08069
FILING DATE: 14-AUG-1993
ATTORNEY/AGENT INFORMATION:

```

; NAME: Rohm, Benita J.
; REGISTRATION NUMBER: 28,664
; REFERENCE/DOCKET NUMBER: RM-7WG
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 908-276-3344
; TELEFAX: 908-276-5543
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 32 amino acids
; TYPE: amino acid
; STRANDEDNESS: NO. 5721212 Relevant
; TOPOLOGY: NO. 5721212 Relevant
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: N/A
; PUBLICATION INFORMATION:
; AUTHORS: N/A
; TITLE: N/A
; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: PCT/US92/08069
; FILING DATE: 14-AUG-1993
; US-08-677-304-13

Query Match      53.5%; Score 77; DB 1; Length 32;
Best Local Similarity 66.7%; Pred. No. 0.0043;
Matches 20; Conservative 2; Mismatches 6; Indels 2; Gaps 1;

Qy      3 KKAARAKKAAKAAKAAKAAKAAKAAKAA 32
      |||||:|:|:|:|:|:|:|:|:|:|:|
Db      3 KKAARAKKAAKAAKAAKAAKAAKAAKAA 30

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Job time : 15.9208 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2004, 16:06:45 ; Search time 50.4554 Seconds
(without alignments)
199.100 Million cell updates/sec

Title: US-09-496-391-8

Perfect score: 144

Sequence: 1 ARKAAARAKKAAARAKKAAARAKKAAKA 32

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

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Total number of hits satisfying chosen parameters: 1292805

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

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Database : Published Applications AA:*

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- 3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep:*
- 6: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
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- 9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
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- 11: /cgn2_6/ptodata/1/pubpaa/US09C_PUBCOMB.pep:*
- 12: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
- 13: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
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- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	94	65.3	347	12	US-10-282-122A-66237 Sequence 66237, A
2	94	65.3	347	14	US-10-127-032-120 Sequence 120, App
3	94	65.3	372	12	US-10-282-122A-68109 Sequence 68109, A
4	88	61.1	336	12	US-10-282-122A-69962 Sequence 69962, A
5	84	58.3	827	16	US-10-437-963-152005 Sequence 152005, A
6	81.5	56.6	60	16	US-10-390-472-16 Sequence 16, Appl
7	81	56.2	428	12	US-10-282-122A-55748 Sequence 55748, A
8	80.5	55.9	214	12	US-10-282-122A-62547 Sequence 62547, A
9	80.5	55.9	214	14	US-10-282-122A-64817 Sequence 64817, A
10	80.5	55.9	214	14	US-10-429-567-27 Sequence 27, Appl
11	79	54.9	685	15	US-10-369-493-3684 Sequence 3684, Ap
12	78	54.2	91	12	US-10-393-449-51 Sequence 51, Appl
13	78	54.2	91	14	US-10-177-725-51 Sequence 51, Appl
14	78	54.2	104	12	US-10-393-449-47 Sequence 47, Appl
15	78	54.2	104	14	US-10-177-725-47 Sequence 47, Appl

ALIGNMENTS

RESULT 1

US-10-282-122A-66237
; Sequence 66237, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA 034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; PRIOR FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636

Sequence 43, Appl
Sequence 93, Appl
Sequence 43, Appl
Sequence 93, Appl
Sequence 44, Appl
Sequence 45, Appl
Sequence 46, Appl
Sequence 44, Appl
Sequence 24, Appl
Sequence 78190, A
Sequence 101, App
Sequence 101, App
Sequence 97, Appl
Sequence 97, Appl
Sequence 94, Appl
Sequence 95, Appl
Sequence 96, Appl
Sequence 94, Appl
Sequence 95, Appl
Sequence 96, Appl
Sequence 98, Appl
Sequence 98, Appl
Sequence 95, Appl
Sequence 95, Appl
Sequence 54, Appl
Sequence 104, App

US-10-393-449-43
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US-10-393-449-97
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US-10-177-725-96
US-10-177-725-95
US-10-393-449-98
US-10-177-725-98
US-09-820-843A-95
US-10-282-122A-76514
US-10-393-449-54
US-10-393-449-104

78 54.2 105 12
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78 54.2 110 14
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78 54.2 309 10
78 54.2 388 12
77 53.5 91 12
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77 53.5 106 14
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77 53.5 111 12
77 53.5 111 14
77 53.5 369 10
77 53.5 369 12
76 52.8 67 12
76 52.8 67 12

; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 66237
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-66237

Query Match 65.3%; Score 94; DB 12; Length 347;
Best Local Similarity 66.7%; Pred. No. 0.0027;
Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAAKAAKAAKAAKAAKAAKAA 30
DB 163 AKKAAEDAKKAAEDAKKAAEDAKKAA 192

RESULT 2
US-10-127-032-120
; Sequence 120, Application US/10127032
; Publication No. US20030113742A1
; GENERAL INFORMATION:
; APPLICANT: Whiteley, Marvin
; APPLICANT: Bangera, M. Gita
; APPLICANT: Lory, Stephen
; APPLICANT: Greenberg, Everett Peter
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE MODULATION OF
; TITLE OF INVENTION: BIOFILM FORMATION
; FILE REFERENCE: UIZ-070CP
; CURRENT APPLICATION NUMBER: US/10/127,032
; CURRENT FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/285,190
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: US 60/344,142
; PRIOR FILING DATE: 2001-10-24
; NUMBER OF SEQ ID NOS: 170
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-10-127-032-120

Query Match 65.3%; Score 94; DB 14; Length 347;
Best Local Similarity 66.7%; Pred. No. 0.0027;
Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 AKKAAAKAAKAAKAAKAAKAAKAA 30
DB 163 AKKAAEDAKKAAEDAKKAAEDAKKAA 192

RESULT 3
US-10-282-122A-68109
; Sequence 68109, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 68109
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Pseudomonas putida
US-10-282-122A-68103

Query Match 65.3%; Score 94; DB 12; Length 372;
Best Local Similarity 66.7%; Pred. No. 0.0029;
Matches 20; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 ARKKAARAAKAAKAAKAAKAAKAA 30
DB 184 ARKAAEDAKKAAEDAKKAAEDAKKAA 213

RESULT 4
US-10-282-122A-69962
; Sequence 69962, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09


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; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 69962
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Pseudomonas syringae
US-10-282-122A-69962

Query Match      61.1%; Score 88; DB 12; Length 336;
Best Local Similarity 63.3%; Pred. No. 0.013;
Matches 19; Conservative 7; Mismatches 4; Indels 0; Gaps 0;

Qy 1 ARKKAARAAKKAARAAKKAARAAKKA 30
Db 166 AKQAADAKKAADAKKAADAKKAADAKKAA 195

RESULT 5
US-10-437-963-152005
; Sequence 152005, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 152005
; LENGTH: 827
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_52099C.1.pep
US-10-437-963-152005

Query Match      58.3%; Score 84; DB 16; Length 827;
Best Local Similarity 56.2%; Pred. No. 0.084;
Matches 18; Conservative 9; Mismatches 5; Indels 0; Gaps 0;

Qy 1 ARKKAARAAKKAARAAKKAARAAKKA 32
Db 378 ARQRAAAVQKAAREARERAAERAAKAA 409

RESULT 6
US-10-390-472-16
; Sequence 16, Application US/10390472
; Publication No. US20040087013A1
; GENERAL INFORMATION:
; APPLICANT: Holmes, Todd
; APPLICANT: Zhang, Shuguang
; APPLICANT: Rich, Alexander
; APPLICANT: DiPersio, C. Michael

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; Lockshin, Curtis
; TITLE OF INVENTION: STABLE MACROSCOPIC MEMBRANES FORMED BY
; SELF-ASSEMBLY OF AMPHIPHILIC PEPTIDES AND USES
; THEREFOR
; NUMBER OF SEQUENCES: 64
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: Massachusetts
; COUNTRY: U.S.A.
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,472
; FILING DATE: 17-Mar-2003
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/293,284
; FILING DATE: 22-AUG-1994
; APPLICATION NUMBER: 07/973,326
; FILING DATE: 28-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Brook, David E.
; REGISTRATION NUMBER: 22,592
; REFERENCE/DOCKET NUMBER: MIT-6008A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 60 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-10-390-472-16

Query Match      56.6%; Score 81.5; DB 16; Length 60;
Best Local Similarity 56.8%; Pred. No. 0.013;
Matches 21; Conservative 4; Mismatches 7; Indels 5; Gaps 1;

Qy 1 ARKKAARAAKKAARAAKKAARAAKKA 32
Db 11 AKKKAARAAKKAARAAKKAARAAKKA 47

RESULT 7
US-10-282-122A-55748
; Sequence 55748, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078

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/ PRIOR FILING DATE: 2000-03-21
/ PRIOR APPLICATION NUMBER: 60/206,848
/ PRIOR FILING DATE: 2000-05-23
/ PRIOR APPLICATION NUMBER: 60/207,727
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: 60/230,335
/ PRIOR FILING DATE: 2000-09-06
/ PRIOR APPLICATION NUMBER: 60/230,347
/ PRIOR FILING DATE: 2000-09-09
/ PRIOR APPLICATION NUMBER: 60/242,578
/ PRIOR FILING DATE: 2000-10-23
/ PRIOR APPLICATION NUMBER: 60/253,625
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/257,931
/ PRIOR FILING DATE: 2000-12-22
/ PRIOR APPLICATION NUMBER: 60/267,636
/ PRIOR FILING DATE: 2001-02-09
/ PRIOR APPLICATION NUMBER: 60/269,308
/ PRIOR FILING DATE: 2001-02-16
/ Remaining Prior Application data removed
/ NUMBER OF SEQ ID NOS: 78614
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 55748
/ LENGTH: 428
/ TYPE: PRT
/ ORGANISM: Enterobacter cloacae
/ US-10-282-122A-55748

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Query Match      56.2%   Score 81;   DB 12;   Length 428;
Best Local Similarity 62.5%;   Pred.No. 0.097;
Matches 20; Conservative 2; Mismatches 10; Indels 0; Gaps 0;
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RESULT 8
US-10-282-122A-62547
/ Sequence 62547, Application US/10282122A
/ Publication No. US20040029129A1
/ GENERAL INFORMATION:
/ APPLICANT: Wang, Liangsu
/ APPLICANT: Zamudio, Carlos
/ APPLICANT: Malone, Cheryl
/ APPLICANT: Haselbeck, Robert
/ APPLICANT: Ohlsen, Karl
/ APPLICANT: Zyskind, Judith
/ APPLICANT: Wall, Daniel
/ APPLICANT: Trawick, John
/ APPLICANT: Carr, Grant
/ APPLICANT: Yamamoto, Robert
/ APPLICANT: Forsyth, R.
/ APPLICANT: Xu, H.
/ TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
/ FILE REFERENCE: ELITRA 034A
/ CURRENT APPLICATION NUMBER: US/10/282,122A
/ CURRENT FILING DATE: 2003-02-20
/ PRIOR APPLICATION NUMBER: 60/191,078
/ PRIOR FILING DATE: 2000-03-21
/ PRIOR APPLICATION NUMBER: 60/206,848
/ PRIOR FILING DATE: 2000-05-23
/ PRIOR APPLICATION NUMBER: 60/207,727
/ PRIOR FILING DATE: 2000-05-26
/ PRIOR APPLICATION NUMBER: 60/230,335
/ PRIOR FILING DATE: 2000-09-06
/ PRIOR APPLICATION NUMBER: 60/230,347
/ PRIOR FILING DATE: 2000-09-09
/ PRIOR APPLICATION NUMBER: 60/242,578
/ PRIOR FILING DATE: 2000-10-23
/ PRIOR APPLICATION NUMBER: 60/253,625
/ PRIOR FILING DATE: 2000-11-27
/ PRIOR APPLICATION NUMBER: 60/257,931

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; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62547
; LENGTH: 214
; TYPE: PR1
; ORGANISM: Mycobacterium bovis
US-10-282-122A-62547

Query Match          55.9%;      Score 80.5;  DB 12;  Length 214;
Best Local Similarity 53.6%;      Pred. No. 0, 056;
Matches 21; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

QY      1  ARKQAAKAAKKAARQAAKAA-ARKAAKA 32
Db      111 AKKVAKKAPAKKATKAQKAATKAPAKAATKA 143

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RESULT 9

US-10-282-122A-64817

Sequence 64817, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

APPLICANT: Zyskind, Judith

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John

APPLICANT: Carr, Grant

APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.

APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

FILE REFERENCE: ELITRA.034A

CURRENT APPLICATION NUMBER: US/10/282,122A

CURRENT FILING DATE: 2003-02-20

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

PRIOR APPLICATION NUMBER: 60/230,347

PRIOR FILING DATE: 2000-09-09

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/267,636

PRIOR FILING DATE: 2001-02-09

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 78614

SOFTWARE: PatentIn version 3.1

SEQ ID NO 64817

LENGTH: 214

TYPE: FRT

ORGANISM: Mycobacterium tuberculosis

US-10-282-122A-64817

Query Match 55.9%; Score 80.5; DB 12; Length 214;
Best Local Similarity 63.6%; Pred. No. 0.056; Indels 1; Gaps 1;
Matches 21; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

Qy 1 ARKAAKAAARKKAAKAAKAAKAAKAAKAAKAA 32
Db 111 AKKVAKKAPAKKATKAAKAAKATKAPARKAATKA 143

RESULT 10
US-10-229-567-27
; Sequence 27, Application US/10229567
; Publication No. US20030092080A1
; GENERAL INFORMATION:
; APPLICANT: Braum, Jonathan
; TITLE OF INVENTION: Diagnosis, Prevention and Treatment of
; Ulcerative Colitis, and Clinical Subtypes Thereof, Using
; Microbial UC PANCA antigens

NUMBER OF SEQUENCES: 41
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/229,567
FILING DATE: 27-Aug-2002
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/417,264
FILING DATE: <unknown>
APPLICATION NUMBER: US 09/041,889
FILING DATE: <unknown>

ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-PM 3006

TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 214 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 27:
US-10-229-567-27

Query Match 55.9%; Score 80.5; DB 14; Length 214;
Best Local Similarity 63.6%; Pred. No. 0.056; Indels 1; Gaps 1;
Matches 21; Conservative 2; Mismatches 9; Indels 1; Gaps 1;

Qy 1 ARKAAKAAARKKAAKAAKAAKAAKAAKAAKAA 32
Db 111 AKKVAKKAPAKKATKAAKAAKATKAPARKAATKA 143

RESULT 11
US-10-369-493-3684
; Sequence 3684, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.

APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 3684
LENGTH: 685
TYPE: PRT
ORGANISM: Neurospora crassa
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(685)
OTHER INFORMATION: unsure at all xaa locations
US-10-369-493-3684

Query Match 54.9%; Score 79; DB 15; Length 685;
Best Local Similarity 58.1%; Pred. No. 0.26; Indels 0; Gaps 0;
Matches 18; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

Qy 2 RKKAARKAAKAAKAAKAAKAAKAAKAAKAAKA 32
Db 587 KKKAARKAAKAAKAAKAAKAAKAAKAAKAAK 617

RESULT 12
US-10-393-449-51
; Sequence 51, Application US/10393449
; Publication No. US20030224412A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David
; APPLICANT: Bogenberger, Jakob M.
; APPLICANT: Peele, Beau R.
TITLE OF INVENTION: STRUCTURALLY BIASED RANDOM PEPTIDE LIBRARIES BASED ON DIFFERENT S
FILE REFERENCE: RIGL-007CIP3
CURRENT APPLICATION NUMBER: US/10/393,449
CURRENT FILING DATE: 2003-03-18
PRIOR APPLICATION NUMBER: US 10/177,725
PRIOR FILING DATE: 2002-06-20
PRIOR APPLICATION NUMBER: US 09/415,765
PRIOR FILING DATE: 1999-10-08
PRIOR APPLICATION NUMBER: US 09/169,015
PRIOR FILING DATE: 1998-10-08
NUMBER OF SEQ ID NOS: 173
SOFTWARE: Patent In version 3.1
SEQ ID NO 51
LENGTH: 91
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: synthetic
US-10-393-449-51

Query Match 54.2%; Score 78; DB 12; Length 91;
Best Local Similarity 61.3%; Pred. No. 0.047; Indels 7; Gaps 0;
Matches 19; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 2 RKKAARKAAKAAKAAKAAKAAKAAKAAKAAKA 32
Db 54 QEAARKAAKAAKAAKAAKAAKAAKAAKAAKAAKA 84

RESULT 13
US-10-177-725-51
; Sequence 51, Application US/10177725
; Publication No. US20030143562A1
; GENERAL INFORMATION:
; APPLICANT: Anderson, David

